



42-461-42560 Pioneer University 3-19 705H IFR1+MS to 21491'MD Survey

Geodetic Report Definitive Survey



Report Date: May 14, 2024 - 03:10 AM (UTC)
Client: Pioneer Natural Resources
Field: TX Upton County (NAD27)
Structure / Slot: Pioneer University 3-19 701H-706H / University 3-19 705H
Well: University 3-19 705H
Borehole: Unknown / Unknown / Unknown
UBH / API / Job Number: 42-461-42560 Pioneer University 3-19 705H IFR1+MS to 21491'MD / 2
Survey Name / Version: March 25, 2024
Survey Date: 317.425 ° / 13968.487 ft / 7.061 / 1.687
Tort / AHD / DDI / ERD Ratio: NAD27 Texas State Plane, Central Zone, US Feet
Coordinate Reference System: N 31°16'34.24375" W 101°46'34.02383"
Location Lat / Long: N 585280.200 RUS E 1549286.700 RUS
Location Grid NE YK: -0.743°
CRS Grid Convergence Angle: 0.9998932(Applied)
Grid Scale Factor: 2024.1.0.1
Engine Version:

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 179.883 °(Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 2701.500 ft above MSL
Seabed / Ground Elevation: 2675.000 ft above MSL
Magnetic Declination: 5.637°
Total Gravity Field Strength: 986.4647mgN (9.80665 Bases)
Gravity Model: GARM
Total Magnetic Field Strength: 46881 nT
Magnetic Dip Angle: 59.29°
Declination Date: May 05, 2024
Magnetic Declination Model: IFR1
North Reference: Grid
Total Corr Mag 6.38°
Local Cord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	TVDSS (ft)	DLS (ft/100ft)	Closure (ft)	Closure Azimuth (°)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2,701.50				588,280.20	1,549,286.70	N 31°16'34.24"	W 101°46'34.02"
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	-2,675.00	0.00	0.00	0.00	588,280.20	1,549,286.70	N 31°16'34.24"	W 101°46'34.02"
	148.50	0.30	161.10	148.50	0.30	-0.30	-0.10	-2,553.00	0.25	0.32	161.10	588,279.90	1,549,286.80	N 31°16'34.24"	W 101°46'34.02"
	235.50	0.40	264.90	235.50	0.54	-0.46	-0.13	-2,466.00	0.64	0.54	192.95	588,279.66	1,549,286.57	N 31°16'34.24"	W 101°46'34.03"
	322.50	0.50	220.20	322.50	0.86	-0.86	-0.67	-2,379.00	0.41	1.09	217.98	588,279.34	1,549,286.03	N 31°16'34.24"	W 101°46'34.03"
	407.50	0.60	167.70	407.49	1.58	-1.58	-0.82	-2,294.01	0.58	1.78	207.36	588,278.62	1,549,285.88	N 31°16'34.23"	W 101°46'34.03"
	501.50	0.80	159.90	501.49	2.68	-2.68	-0.49	-2,200.01	0.24	2.72	190.31	588,277.52	1,549,286.21	N 31°16'34.22"	W 101°46'34.03"
	593.50	1.10	158.50	593.47	4.10	-4.10	0.06	-2,108.03	0.33	4.10	179.20	588,276.10	1,549,286.76	N 31°16'34.20"	W 101°46'34.02"
	685.50	1.00	161.10	688.46	5.74	-5.73	0.66	-2,013.04	0.12	5.77	173.43	588,274.47	1,549,287.36	N 31°16'34.19"	W 101°46'34.02"
	782.50	1.40	156.00	782.44	7.56	-7.56	1.39	-1,919.06	0.44	7.69	169.56	588,272.64	1,549,288.09	N 31°16'34.17"	W 101°46'34.01"
	876.50	1.60	164.80	876.40	9.88	-9.87	2.20	-1,825.10	0.32	10.12	167.42	588,270.33	1,549,288.90	N 31°16'34.15"	W 101°46'34.00"
	970.50	1.80	168.00	970.36	12.59	-12.59	2.86	-1,731.14	0.24	12.91	167.22	588,267.62	1,549,289.55	N 31°16'34.12"	W 101°46'33.99"
	1,064.50	1.70	164.00	1,064.32	15.48	-15.37	3.55	-1,637.16	0.17	15.77	167.01	588,264.63	1,549,290.25	N 31°16'34.09"	W 101°46'33.98"
	1,153.50	1.80	164.80	1,153.28	18.00	-17.99	4.28	-1,548.22	0.12	18.49	166.63	588,262.21	1,549,290.98	N 31°16'34.07"	W 101°46'33.97"
	1,300.00	1.81	161.58	1,299.70	22.41	-22.40	5.61	-1,401.80	0.07	23.09	165.94	588,257.80	1,549,292.31	N 31°16'34.02"	W 101°46'33.96"
	1,395.00	1.65	146.08	1,394.66	24.98	-24.96	6.85	-1,306.84	0.52	25.88	164.66	588,255.24	1,549,293.55	N 31°16'34.00"	W 101°46'33.94"
	1,489.00	2.09	137.76	1,488.61	27.37	-27.35	8.76	-1,212.89	0.55	28.72	162.25	588,252.85	1,549,295.45	N 31°16'33.97"	W 101°46'33.92"
	1,583.00	3.51	126.27	1,582.50	30.35	-30.32	12.23	-1,119.06	1.62	32.70	158.04	588,249.88	1,549,298.93	N 31°16'33.95"	W 101°46'33.88"
	1,678.00	4.38	124.99	1,677.27	34.16	-34.13	17.54	-1,024.23	0.92	38.37	152.79	588,246.08	1,549,304.24	N 31°16'33.91"	W 101°46'33.82"
	1,772.00	6.25	122.86	1,770.86	39.01	-38.96	24.78	-930.64	2.00	46.18	147.54	588,241.24	1,549,311.48	N 31°16'33.86"	W 101°46'33.73"
	1,866.00	7.12	124.59	1,864.22	45.11	-45.04	33.88	-837.28	0.95	56.36	143.05	588,235.16	1,549,320.57	N 31°16'33.80"	W 101°46'33.63"
	2,055.00	6.99	130.57	2,051.80	59.28	-59.17	52.26	-649.70	0.39	78.94	138.55	588,221.03	1,549,338.95	N 31°16'33.66"	W 101°46'33.41"
	2,149.00	6.78	130.41	2,145.12	66.61	-66.49	60.33	-556.38	0.27	102.17	136.74	588,213.72	1,549,347.52	N 31°16'33.59"	W 101°46'33.31"
	2,243.00	6.63	129.87	2,238.47	73.71	-73.57	69.22	-463.03	0.17	101.01	136.74	588,206.64	1,549,355.91	N 31°16'33.52"	W 101°46'33.22"
	2,338.00	6.16	128.58	2,332.88	80.42	-80.26	77.41	-368.62	0.52	111.51	136.04	588,199.95	1,549,364.10	N 31°16'33.46"	W 101°46'33.12"
	2,432.00	5.86	130.10	2,426.37	86.67	-86.50	85.02	-275.13	0.36	121.29	135.49	588,193.71	1,549,371.71	N 31°16'33.40"	W 101°46'33.03"
	2,527.00	6.17	129.66	2,520.84	93.07	-92.88	92.66	-180.66	0.33	131.20	135.07	588,187.33	1,549,379.35	N 31°16'33.34"	W 101°46'32.94"
	2,621.00	6.93	126.98	2,614.22	99.12	-99.51	101.08	-87.27	0.87	141.85	134.55	588,180.70	1,549,387.77	N 31°16'33.27"	W 101°46'32.84"
	2,715.00	6.95	127.33	2,707.54	106.60	-106.37	110.13	6.04	0.05	153.12	134.00	588,173.84	1,549,396.82	N 31°16'33.21"	W 101°46'32.74"
	2,904.00	6.35	127.72	2,895.27	119.97	-119.71	127.49	193.77	0.32	174.88	133.20	588,160.50	1,549,414.17	N 31°16'33.08"	W 101°46'32.54"
	2,998.00	6.05	127.54	2,988.72	126.19	-125.91	135.52	287.22	0.32	184.99	132.89	588,154.30	1,549,422.21	N 31°16'33.02"	W 101°46'32.44"
	3,093.00	5.74	125.58	3,083.22	132.02	-131.73	143.38	381.72	0.39	194.69	132.58	588,148.49	1,549,430.04	N 31°16'32.96"	W 101°46'32.36"
	3,187.00	5.93	125.88	3,176.76	137.45	-137.14	150.88	475.26	0.18	203.89	132.27	588,143.08	1,549,437.56	N 31°16'32.91"	W 101°46'32.27"
	3,281.00	5.13	125.57	3,270.35	142.58	-142.26	157.99	568.85	0.47	212.60	132.00	588,137.96	1,549,444.67	N 31°16'32.86"	W 101°46'32.16"
	3,376.00	4.96	126.94	3,364.98	147.53	-147.19	164.73	663.48	0.22	220.91	131.78	588,133.02	1,549,451.41	N 31°16'32.81"	W 101°46'32.10"
	3,470.00	4.86	126.00	3,458.64	152.10	-151.75	171.35	757.14	0.46	228.89	131.53	588,128.47	1,549,458.04	N 31°16'32.76"	W 101°46'32.03"
	3,565.00	5.53	116.53	3,553.25	156.29	-155.92	178.86	851.75	0.88	237.28	131.08	588,124.29	1,549,465.54	N 31°16'32.72"	W 101°46'31.94"
	3,659.00	5.81	118.30	3,646.79	160.58	-160.20	187.10	945.29	0.35	246.32	130.57	588,120.02	1,549,473.78	N 31°16'32.68"	W 101°46'31.87"
	3,753.00	6.76	122.24	3,740.22	165.81	-165.41	195.97	1,038.72	1.11	256.45	130.17	588,114.81	1,549,482.65	N 31°16'32.63"	W 101°46'31.74"
	3,848.00	6.58	122.75	3,834.58	171.76	-171.34	206.28	1,133.08	0.20	267.39	129.85	588,108.88	1,549,491.96	N 31°16'32.57"	W 101°46'31.63"
	3,942.00	6.65	122.99	3,927.95	176.65	-177.21	214.37	1,226.45	0.08	278.14	129.58	588,103.01	1,549,501.55	N 31°16'32.52"	W 101°46'31.57"
	4,051.00	6.41	121.69	4,036.24	184.31	-183.85	224.85	1,334.74	0.26	290.44	129.27	588,096.37	1,549,511.52	N 31°16'32.45"	W 101°46'31.41"
	4,131.00	6.14	121.76	4,115.76	188.92	-188.44	232.28	1,414.26	0.34	299.11	129.05	588,091.98	1,549,518.96	N 31°16'32.41"	W 101°46'31.32"
	4,226.00	5.92	120.41	4,210.24	194.09	-193.60	240.83	1,508.74	0.28	309.00	128.80	588,086.62	1,549,527.50	N 31°16'32.36"	W 101°46'31.22"
	4,318.00	5.47	119.96	4,303.77	198.80	-198.29	248.89	1,602.27	0.48	318.22	128.54	588,081.93	1,549,535.56	N 31°16'32.31"	W 101°46'31.13"
	4,410.00	6.19	122.55	4,397.29	203.78	-203.25	257.04	1,695.79	0.82	327.69	128.33	588,076.97	1,549,543.72	N 31°16'32.27"	W 101°46'31.03"
	4,508.00	7.34	127.07	4,490.63	210.14	-209.60	266.11	1,789.13	1.35	338.74	128.23	588,070.62	1,549,552.78	N 31°16'32.20"	W 101°46'30.93"
	4,603.00	7.11	126.17	4,584.88	217.29	-216.73	275.70	1,883.38	0.27	350.68	128.17	588,063.50	1,549,562.37	N 31°16'32.15"	W 101°46'30.87"
	4,697.00	6.66	126.87	4,678.20	224.01	-223.43	284.75	1,976.70	0.49	361.95	128.12	588,056.79	1,549,571.42	N 31°16'32.07"	W 101°46'30.71"
	4,792.00	5.75	127.08	4,772.64	230.21	-229.61	292.96	2,071.14	0.96	372.21	128.09	588,050.62	1,549,579.62	N 31°16'32.01"	W 101°46'30.61"
	4,886.00	5.22	126.07	4,866.21	235.58	-234.96	300.17	2,164.71	0.57	381.19	128.05	588,045.26	1,549,586.84	N 31°16'31.96"	W 101°46'30.53"
	4,942.00	5.06	126.40	4,921.99	238.55	-237.93	304.22	2,220.49	0.29	386.21	128.03	588,040.30	1,549,590.88	N 31°16'31.93"	W 101°46'30.48"
	5,044.00	3.98	124.78	5,043.61	244.17	-243.54	312.02	2,342.11	0.89	395.81	127.97	588,036.69	1,549,596.69	N 31°16'31.87"	W 101°46'30.39"
	5,159.00	3.46	124.55	5,138.41	247.69	-247.04	317.09	2,436.91	0.55	401.97	127.92	588,033.18	1,549,603.76	N 31°16'31.84"	W 101°46'30.33"
	5,270.00	1.80	120.89	5,232.30	250.07	-249.41	320.70	2,530.80	1.77	406.27	127.87	588,030.82	1,549,607.36	N 31°16'31.82"	W 101°46'30.29"
	5,348.00	0.20	130.88	5,327.29	250.73	-250.07	321.85	2,625.79	2.10	407.58	127.85	588,030.15	1,549,608.51	N 31°16'31.81"	W 101°46'30.28"
	5,442.00	0.37	357.05	5,421.29	250.33	-249.67	32								

10,978.00	90.14	184.47	8,268.13	3,253.14	-3,252.61	264.82	5,566.63	1.75	3,263.37	175.35	585,027.94	1,549,551.49	N 31°16'2.09"	W 101°46'30.49"
11,072.00	90.06	181.03	8,267.96	3,347.01	-3,346.49	260.31	5,566.46	3.66	3,356.60	175.55	584,934.08	1,549,546.98	N 31°16'1.16"	W 101°46'30.52"
11,167.00	89.91	181.74	8,267.89	3,441.98	-3,441.46	258.02	5,566.49	0.76	3,451.12	175.71	584,839.12	1,549,544.89	N 31°16'0.22"	W 101°46'30.54"
11,262.00	90.29	182.46	8,267.82	3,536.91	-3,536.39	254.53	5,566.32	0.86	3,546.54	175.88	584,744.19	1,549,541.21	N 31°15'59.29"	W 101°46'30.58"
11,357.00	90.14	181.07	8,267.47	3,631.85	-3,631.35	251.61	5,565.97	1.47	3,640.05	176.04	584,649.25	1,549,538.28	N 31°15'58.34"	W 101°46'30.58"
11,451.00	89.42	179.08	8,267.83	3,725.85	-3,725.34	251.49	5,566.33	2.25	3,733.82	176.14	584,555.27	1,549,538.16	N 31°15'57.41"	W 101°46'30.57"
11,540.00	89.93	179.70	8,268.90	3,914.83	-3,914.32	253.50	5,567.40	0.42	3,922.52	176.29	584,366.30	1,549,540.17	N 31°15'55.54"	W 101°46'30.52"
11,735.00	89.96	181.38	8,268.99	4,008.83	-4,008.32	252.60	5,567.49	1.77	4,017.27	176.39	584,271.32	1,549,539.28	N 31°15'54.60"	W 101°46'30.51"
11,830.00	90.05	182.15	8,268.98	4,104.77	-4,104.27	249.68	5,567.48	0.82	4,111.86	176.52	584,178.38	1,549,536.35	N 31°15'53.66"	W 101°46'30.53"
12,019.00	90.06	182.80	8,268.80	4,293.58	-4,293.09	241.52	5,567.30	0.34	4,299.88	176.78	583,987.57	1,549,528.19	N 31°15'51.79"	W 101°46'30.60"
12,114.00	90.33	183.41	8,268.48	4,388.43	-4,387.95	236.37	5,566.98	0.70	4,394.32	176.92	583,892.72	1,549,523.04	N 31°15'50.85"	W 101°46'30.65"
12,302.00	90.34	183.22	8,267.38	4,576.09	-4,575.64	225.50	5,565.88	0.10	4,581.19	177.18	583,705.06	1,549,512.17	N 31°15'48.99"	W 101°46'30.74"
12,397.00	89.73	180.54	8,267.32	4,671.02	-4,670.58	222.38	5,565.82	2.89	4,675.87	177.27	583,610.13	1,549,509.06	N 31°15'48.05"	W 101°46'30.76"
12,587.00	90.03	182.63	8,267.72	4,861.01	-4,860.56	220.44	5,566.22	0.16	4,865.56	177.40	583,420.16	1,549,507.12	N 31°15'46.17"	W 101°46'30.76"
12,681.00	90.18	181.85	8,267.55	4,954.98	-4,954.54	218.41	5,566.05	1.31	4,959.35	177.48	583,326.20	1,549,505.08	N 31°15'45.24"	W 101°46'30.77"
12,869.00	89.95	180.21	8,267.33	5,142.93	-5,142.50	215.03	5,565.83	0.88	5,147.00	177.61	583,138.26	1,549,501.71	N 31°15'43.38"	W 101°46'30.78"
13,057.00	90.11	182.28	8,267.23	5,330.87	-5,330.45	210.94	5,565.73	1.10	5,334.62	177.73	582,950.33	1,549,497.62	N 31°15'41.52"	W 101°46'30.80"
13,246.00	89.97	181.12	8,267.10	5,519.77	-5,519.36	205.34	5,565.80	0.62	5,523.18	177.87	582,761.44	1,549,482.01	N 31°15'39.65"	W 101°46'30.83"
13,340.00	89.74	180.53	8,267.34	5,613.76	-5,613.35	203.98	5,565.94	0.67	5,617.08	177.92	582,567.46	1,549,466.66	N 31°15'38.72"	W 101°46'30.84"
13,435.00	89.57	179.39	8,267.91	5,708.75	-5,708.35	204.05	5,566.41	1.21	5,711.99	177.95	582,372.47	1,549,490.73	N 31°15'37.78"	W 101°46'30.82"
13,529.00	89.92	181.79	8,268.33	5,802.74	-5,802.34	203.08	5,566.83	2.58	5,805.89	178.00	582,178.50	1,549,489.76	N 31°15'36.82"	W 101°46'30.82"
13,624.00	90.19	182.75	8,268.24	5,897.66	-5,897.26	199.32	5,566.74	1.05	5,900.63	178.06	582,383.58	1,549,486.00	N 31°15'35.91"	W 101°46'30.85"
13,718.00	89.94	182.82	8,268.13	5,991.61	-5,991.22	196.72	5,566.63	2.49	5,994.45	178.12	582,289.63	1,549,483.99	N 31°15'34.98"	W 101°46'30.86"
13,813.00	89.80	181.29	8,268.35	6,086.59	-6,086.21	196.30	5,566.85	0.93	6,089.34	178.16	582,194.66	1,549,481.98	N 31°15'34.04"	W 101°46'30.86"
14,002.00	89.89	181.29	8,268.86	6,275.53	-6,275.16	191.05	5,567.36	0.05	6,278.06	178.26	582,005.73	1,549,477.73	N 31°15'32.17"	W 101°46'30.89"
14,096.00	89.54	179.43	8,269.33	6,369.53	-6,369.15	190.46	5,567.83	2.01	6,372.00	178.29	581,911.74	1,549,477.14	N 31°15'31.24"	W 101°46'30.88"
14,191.00	89.93	180.10	8,269.77	6,464.52	-6,464.15	190.85	5,568.27	0.82	6,466.96	178.31	581,816.76	1,549,477.53	N 31°15'30.30"	W 101°46'30.86"
14,285.00	89.69	182.87	8,270.08	6,558.52	-6,558.15	189.88	5,568.58	0.36	6,560.92	178.33	581,722.77	1,549,477.56	N 31°15'29.37"	W 101°46'30.85"
14,379.00	89.61	182.04	8,270.41	6,652.50	-6,652.13	189.32	5,568.91	2.33	6,654.82	178.37	581,628.80	1,549,476.00	N 31°15'28.44"	W 101°46'30.84"
14,569.00	89.90	179.81	8,270.72	6,842.46	-6,842.09	186.25	5,569.22	1.17	6,844.62	178.44	581,438.85	1,549,472.93	N 31°15'26.56"	W 101°46'30.86"
14,663.00	89.83	179.40	8,270.94	6,936.46	-6,936.09	186.90	5,569.44	0.44	6,938.61	178.46	581,344.87	1,549,473.58	N 31°15'25.63"	W 101°46'30.87"
14,851.00	89.90	180.04	8,271.39	7,124.45	-7,124.08	187.82	5,569.89	0.34	7,126.56	178.49	581,156.89	1,549,474.50	N 31°15'23.77"	W 101°46'30.80"
14,946.00	89.65	182.22	8,271.76	7,219.45	-7,219.08	188.43	5,570.26	0.90	7,221.54	178.50	581,061.91	1,549,475.11	N 31°15'22.83"	W 101°46'30.77"
15,134.00	89.73	183.27	8,271.82	7,407.36	-7,407.00	184.35	5,570.32	2.18	7,409.29	178.57	580,874.01	1,549,471.03	N 31°15'20.97"	W 101°46'30.79"
15,229.00	89.91	180.87	8,271.64	7,502.28	-7,501.93	180.92	5,570.14	2.56	7,504.11	178.62	580,779.09	1,549,467.60	N 31°15'20.03"	W 101°46'30.82"
15,324.00	90.11	181.82	8,271.63	7,597.25	-7,596.90	178.69	5,570.13	1.02	7,599.00	178.65	580,684.13	1,549,465.37	N 31°15'19.09"	W 101°46'30.81"
15,418.00	90.13	183.84	8,271.43	7,691.12	-7,690.78	174.05	5,569.93	2.15	7,692.75	178.70	580,590.26	1,549,460.73	N 31°15'18.16"	W 101°46'30.87"
15,512.00	89.86	182.80	8,271.44	7,784.95	-7,784.62	169.62	5,569.84	1.14	7,786.45	178.76	580,496.43	1,549,455.29	N 31°15'17.23"	W 101°46'30.82"
15,607.00	89.88	181.50	8,271.65	7,878.97	-7,878.64	165.75	5,570.15	1.37	7,881.29	178.80	580,401.51	1,549,451.72	N 31°15'16.29"	W 101°46'30.81"
15,701.00	89.91	180.96	8,271.82	7,973.85	-7,973.53	163.02	5,570.32	0.58	7,975.20	178.83	580,307.54	1,549,449.70	N 31°15'15.36"	W 101°46'30.95"
15,891.00	89.56	180.97	8,272.70	8,163.81	-8,163.50	159.82	5,571.20	0.18	8,165.06	178.88	580,117.59	1,549,446.51	N 31°15'13.48"	W 101°46'30.96"
15,985.00	89.57	180.80	8,273.42	8,257.79	-8,257.49	158.37	5,571.92	0.18	8,259.00	178.90	580,023.61	1,549,445.05	N 31°15'12.55"	W 101°46'30.97"
16,080.00	89.81	182.87	8,273.83	8,352.73	-8,352.43	155.35	5,572.43	2.19	8,353.87	178.93	579,928.68	1,549,442.01	N 31°15'11.61"	W 101°46'30.99"
16,265.00	89.80	180.89	8,274.59	8,541.68	-8,541.32	149.33	5,573.39	1.05	8,542.62	179.00	579,834.81	1,549,438.21	N 31°15'10.67"	W 101°46'31.03"
16,364.00	89.98	182.37	8,275.23	8,636.56	-8,636.27	146.43	5,573.73	1.61	8,637.52	179.03	579,644.86	1,549,433.11	N 31°15'09.80"	W 101°46'31.05"
16,458.00	89.79	181.27	8,275.42	8,730.50	-8,730.23	143.44	5,573.92	1.19	8,731.40	179.06	579,550.92	1,549,430.13	N 31°15'07.87"	W 101°46'31.07"
16,553.00	89.63	180.73	8,275.90	8,825.48	-8,825.21	141.78	5,574.40	0.59	8,826.35	179.08	579,455.95	1,549,428.47	N 31°15'06.93"	W 101°46'31.07"
16,648.00	89.78	181.42	8,276.39	8,920.46	-8,920.19	140.00	5,574.89	0.74	8,921.29	179.10	579,360.98	1,549,426.99	N 31°15'05.99"	W 101°46'31.08"
16,742.00	89.93	180.91	8,276.62	9,014.43	-9,014.17	138.09	5,575.12	0.57	9,015.23	179.12	579,267.01	1,549,424.78	N 31°15'05.01"	W 101°46'31.08"
16,835.00	89.54	180.88	8,277.52	9,207.40	-9,207.15	135.08	5,576.02	0.20	9,208.14	179.16	579,074.06	1,549,421.76	N 31°15'03.15"	W 101°46'31.09"
17,026.00	89.94	181.43	8,277.93	9,298.38	-9,298.13	133.24	5,576.03	0.75	9,299.08	179.18	578,983.09	1,549,419.93	N 31°15'02.25"	W 101°46'31.10"
17,215.00	90.21	183.90	8,277.68	9,487.14	-9,486.91	124.45	5,576.18	1.31	9,487.72	179.25	578,794.33	1,549,411.14	N 31°15'00.38"	W 101°46'31.17"
17,310.00	89.76	181.59	8,277.29	9,582.01	-9,581.79	119.80	5,575.79	2.43	9,582.54	179.28	578,699.45	1,549,406.59	N 31°14'59.44"	W 101°46'31.21"
17,405.00	90.61	181.82	8,276.57	9,676.96	-9,676.74	117.08	5,575.07	0.44	9,677.45	179.31	578,604.51	1,549,403.77	N 31°14'58.50"	W 101°46'31.23"
17,500.00	90.57	179.95	8,275.59	9,771.94	-9,771.72	115.61	5,574.09	1.97	9,772.41	179.32	578,509.54	1,549,402.30	N 31°14'57.56"	W 101°46'31.23"
17,693.00	89.96	181.11	8,274.70	9,964.92	-9,964.71	113.83	5,573.20	0.68	9,965.36	179.35	578,316.57	1,549,400.51	N 31°14'55.65"	W 101°46'31.22"
17,788.00	90.75	184.25	8,274.11	10,059.79	-10,059.59	109.38	5,572.61	3.41	10,060.19	179.38	578,221.70	1,549,396.07	N 31°14'54.71"	W 101°46'31.28"
17,976.00	90.30	183.30	8,271.90	10,247.34	-10,247.17	97.01	5,570.40	0.51	10,247.63	179.46	578,034.15	1,549,386.07	N 31°14'52.85"	W 101°46'31.38"
18,070.00	91.03	180.11	8,270.56	10,341.28	-10,341.10	94.21	5,569.06	3.42	10,341.53	179.48	577,940.22	1,549,380.30	N 31°14'51.92"	W 101°46'31.39"
18,259.00	91.40	181.17	8,266.55	10,530.21	-10,530.05	92.10	5,565.05	0.59	10,530.45	179.50	577,751.30	1,549,378.79	N 31°14'50.05"	W 101°46'31.39"
18,353.00	91.52	181.35	8,264.16	10,624.16	-10,623.99	90.03	5,562.66	0.23	10,624.38	179.51	577,657.36	1,549,376.73	N 31	