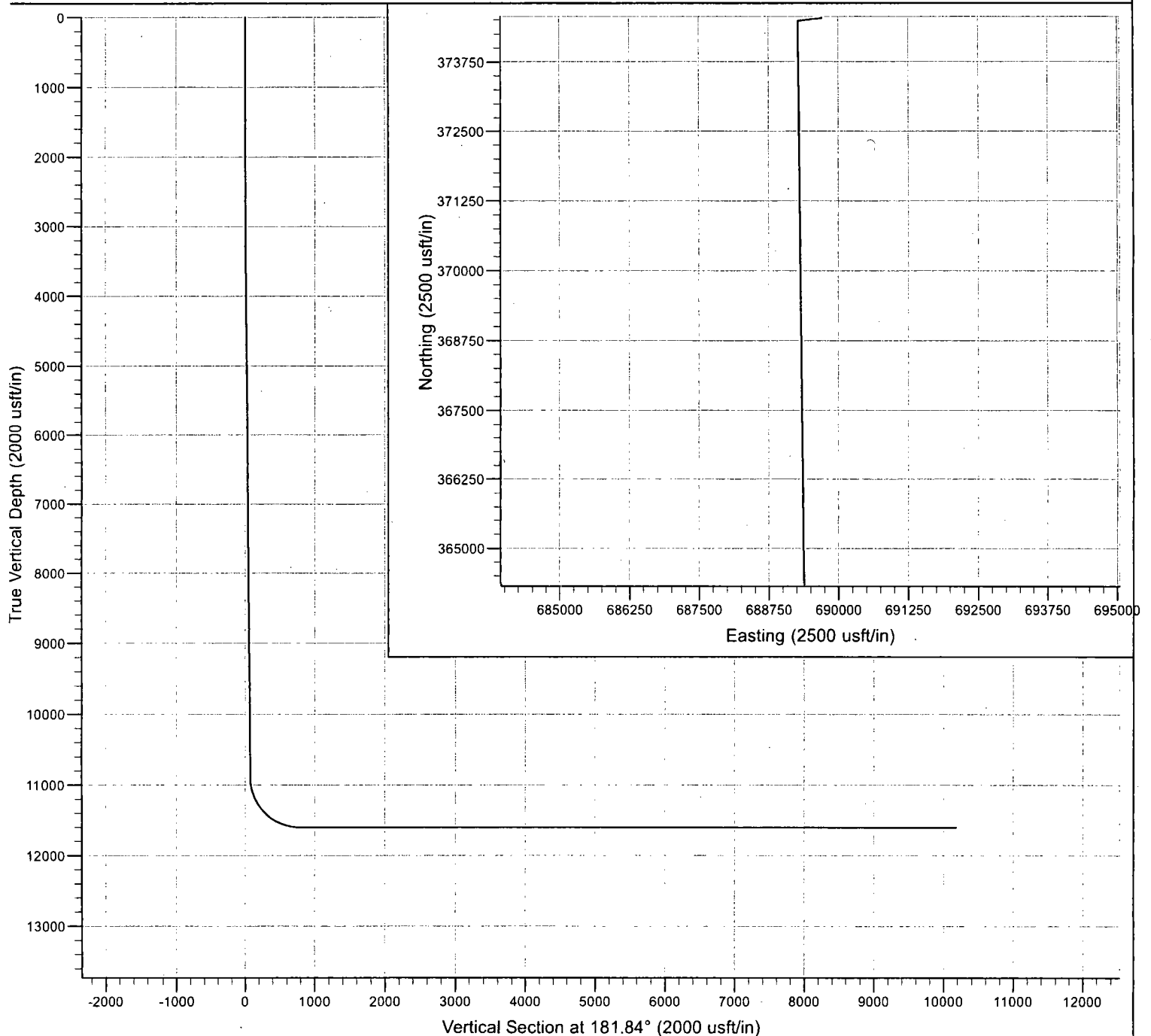


CONOCOPHILLIPS COMPANY

Well: ZIA HILLS 19 105H

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00
3	3162.05	3.24	263.18	3161.96	-0.54	-4.55	2.00	263.18	0.69
4	10651.10	3.24	263.18	10639.04	-50.83	-424.94	0.00	0.00	64.41
5	10813.15	0.00	0.00	10801.00	-51.37	-429.49	2.00	180.00	65.10
6	10896.95	0.00	0.00	10884.80	-51.37	-429.49	0.00	0.00	65.10
7	12021.95	90.00	179.42	11601.00	-767.53	-422.18	8.00	179.42	780.66
8	1433.24	90.00	179.42	11601.00-10178.33	-326.17	0.00	0.00	0.00	183.55



HOBBS OCD
NOV 27 2017
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ConocoPhillips MCBU - Permian-Panhandle Gold Data

Planning - NM East State Zone - 3001

ZIA HILLS 19 105H

ZIA HILLS 19 105H

ZIA HILLS 19 105H

Plan: ZIA HILLS 19 105H_WP1

Survey Report - Geographic

27 June, 2017

Site		ZIA HILLS 19 105H			
Site Position:		Northing:	374,520.42 usft	Latitude:	32° 1' 41.50 N
From:	Map	Easting:	689,706.65 usft	Longitude:	103° 43' 16.261 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.32 °

Planned Survey

Measured			Vertical			Map	Map		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
0.00	0.00	0.00	0.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
50.00	0.00	0.00	50.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
100.00	0.00	0.00	100.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
150.00	0.00	0.00	150.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
200.00	0.00	0.00	200.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
250.00	0.00	0.00	250.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
300.00	0.00	0.00	300.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
350.00	0.00	0.00	350.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
400.00	0.00	0.00	400.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
450.00	0.00	0.00	450.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
500.00	0.00	0.00	500.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
550.00	0.00	0.00	550.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
600.00	0.00	0.00	600.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
650.00	0.00	0.00	650.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
700.00	0.00	0.00	700.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
750.00	0.00	0.00	750.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
800.00	0.00	0.00	800.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
850.00	0.00	0.00	850.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
900.00	0.00	0.00	900.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
950.00	0.00	0.00	950.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
1,000.00	0.00	0.00	1,000.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
1,050.00	0.00	0.00	1,050.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
1,100.00	0.00	0.00	1,100.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
1,150.00	0.00	0.00	1,150.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
1,200.00	0.00	0.00	1,200.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
1,250.00	0.00	0.00	1,250.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
1,300.00	0.00	0.00	1,300.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
1,350.00	0.00	0.00	1,350.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
1,400.00	0.00	0.00	1,400.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
1,450.00	0.00	0.00	1,450.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
1,500.00	0.00	0.00	1,500.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
1,550.00	0.00	0.00	1,550.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
1,600.00	0.00	0.00	1,600.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
1,650.00	0.00	0.00	1,650.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
1,700.00	0.00	0.00	1,700.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
1,750.00	0.00	0.00	1,750.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
1,800.00	0.00	0.00	1,800.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
1,850.00	0.00	0.00	1,850.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
1,900.00	0.00	0.00	1,900.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
1,950.00	0.00	0.00	1,950.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
2,000.00	0.00	0.00	2,000.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
2,050.00	0.00	0.00	2,050.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
2,100.00	0.00	0.00	2,100.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
2,150.00	0.00	0.00	2,150.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
2,200.00	0.00	0.00	2,200.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
2,250.00	0.00	0.00	2,250.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
2,300.00	0.00	0.00	2,300.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
2,350.00	0.00	0.00	2,350.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
2,400.00	0.00	0.00	2,400.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
2,450.00	0.00	0.00	2,450.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
2,500.00	0.00	0.00	2,500.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
2,550.00	0.00	0.00	2,550.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
2,600.00	0.00	0.00	2,600.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
2,650.00	0.00	0.00	2,650.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
2,700.00	0.00	0.00	2,700.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
2,750.00	0.00	0.00	2,750.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
2,800.00	0.00	0.00	2,800.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
2,850.00	0.00	0.00	2,850.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
2,900.00	0.00	0.00	2,900.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
2,950.00	0.00	0.00	2,950.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
3,000.00	0.00	0.00	3,000.00	0.00	0.00	374,520.42	689,706.65	32° 1' 41.50 N	103° 43' 16.261 W
3,050.00	1.00	263.18	3,050.00	-0.05	-0.43	374,520.37	689,706.21	32° 1' 41.50 N	103° 43' 16.266 W
3,100.00	2.00	263.18	3,099.98	-0.21	-1.73	374,520.21	689,704.91	32° 1' 41.49 N	103° 43' 16.281 W
3,150.00	3.00	263.18	3,149.93	-0.47	-3.90	374,519.95	689,702.75	32° 1' 41.49 N	103° 43' 16.306 W
3,162.05	3.24	263.18	3,161.96	-0.54	-4.55	374,519.87	689,702.10	32° 1' 41.49 N	103° 43' 16.314 W
3,200.00	3.24	263.18	3,199.85	-0.80	-6.68	374,519.62	689,699.97	32° 1' 41.49 N	103° 43' 16.339 W
3,250.00	3.24	263.18	3,249.77	-1.13	-9.49	374,519.28	689,697.16	32° 1' 41.49 N	103° 43' 16.371 W
3,300.00	3.24	263.18	3,299.69	-1.47	-12.29	374,518.95	689,694.35	32° 1' 41.48 N	103° 43' 16.404 W
3,350.00	3.24	263.18	3,349.61	-1.81	-15.10	374,518.61	689,691.55	32° 1' 41.48 N	103° 43' 16.437 W
3,400.00	3.24	263.18	3,399.53	-2.14	-17.91	374,518.28	689,688.74	32° 1' 41.48 N	103° 43' 16.469 W
3,450.00	3.24	263.18	3,449.45	-2.48	-20.71	374,517.94	689,685.93	32° 1' 41.47 N	103° 43' 16.502 W
3,500.00	3.24	263.18	3,499.37	-2.81	-23.52	374,517.61	689,683.13	32° 1' 41.47 N	103° 43' 16.535 W
3,550.00	3.24	263.18	3,549.29	-3.15	-26.33	374,517.27	689,680.32	32° 1' 41.47 N	103° 43' 16.567 W
3,600.00	3.24	263.18	3,599.21	-3.48	-29.13	374,516.93	689,677.51	32° 1' 41.46 N	103° 43' 16.600 W
3,650.00	3.24	263.18	3,649.13	-3.82	-31.94	374,516.60	689,674.71	32° 1' 41.46 N	103° 43' 16.632 W
3,700.00	3.24	263.18	3,699.05	-4.16	-34.75	374,516.26	689,671.90	32° 1' 41.46 N	103° 43' 16.665 W
3,750.00	3.24	263.18	3,748.97	-4.49	-37.55	374,515.93	689,669.09	32° 1' 41.45 N	103° 43' 16.698 W
3,800.00	3.24	263.18	3,798.89	-4.83	-40.36	374,515.59	689,666.29	32° 1' 41.45 N	103° 43' 16.730 W
3,850.00	3.24	263.18	3,848.81	-5.16	-43.17	374,515.26	689,663.48	32° 1' 41.45 N	103° 43' 16.763 W
3,900.00	3.24	263.18	3,898.73	-5.50	-45.97	374,514.92	689,660.67	32° 1' 41.44 N	103° 43' 16.796 W
3,950.00	3.24	263.18	3,948.65	-5.83	-48.78	374,514.58	689,657.87	32° 1' 41.44 N	103° 43' 16.828 W
4,000.00	3.24	263.18	3,998.57	-6.17	-51.59	374,514.25	689,655.06	32° 1' 41.44 N	103° 43' 16.861 W
4,050.00	3.24	263.18	4,048.49	-6.51	-54.39	374,513.91	689,652.25	32° 1' 41.44 N	103° 43' 16.893 W
4,100.00	3.24	263.18	4,098.41	-6.84	-57.20	374,513.58	689,649.45	32° 1' 41.43 N	103° 43' 16.926 W
4,150.00	3.24	263.18	4,148.33	-7.18	-60.01	374,513.24	689,646.64	32° 1' 41.43 N	103° 43' 16.959 W
4,200.00	3.24	263.18	4,198.25	-7.51	-62.81	374,512.91	689,643.83	32° 1' 41.43 N	103° 43' 16.991 W
4,250.00	3.24	263.18	4,248.17	-7.85	-65.62	374,512.57	689,641.03	32° 1' 41.42 N	103° 43' 17.024 W
4,300.00	3.24	263.18	4,298.09	-8.18	-68.43	374,512.23	689,638.22	32° 1' 41.42 N	103° 43' 17.057 W
4,350.00	3.24	263.18	4,348.01	-8.52	-71.23	374,511.90	689,635.41	32° 1' 41.42 N	103° 43' 17.089 W
4,400.00	3.24	263.18	4,397.93	-8.86	-74.04	374,511.56	689,632.61	32° 1' 41.41 N	103° 43' 17.122 W
4,450.00	3.24	263.18	4,447.85	-9.19	-76.85	374,511.23	689,629.80	32° 1' 41.41 N	103° 43' 17.154 W
4,500.00	3.24	263.18	4,497.77	-9.53	-79.65	374,510.89	689,626.99	32° 1' 41.41 N	103° 43' 17.187 W
4,550.00	3.24	263.18	4,547.69	-9.86	-82.46	374,510.56	689,624.19	32° 1' 41.40 N	103° 43' 17.220 W
4,600.00	3.24	263.18	4,597.61	-10.20	-85.27	374,510.22	689,621.38	32° 1' 41.40 N	103° 43' 17.252 W
4,650.00	3.24	263.18	4,647.53	-10.53	-88.07	374,509.88	689,618.58	32° 1' 41.40 N	103° 43' 17.285 W
4,700.00	3.24	263.18	4,697.45	-10.87	-90.88	374,509.55	689,615.77	32° 1' 41.39 N	103° 43' 17.317 W
4,750.00	3.24	263.18	4,747.37	-11.21	-93.69	374,509.21	689,612.96	32° 1' 41.39 N	103° 43' 17.350 W
4,800.00	3.24	263.18	4,797.29	-11.54	-96.49	374,508.88	689,610.16	32° 1' 41.39 N	103° 43' 17.383 W
4,850.00	3.24	263.18	4,847.21	-11.88	-99.30	374,508.54	689,607.35	32° 1' 41.38 N	103° 43' 17.415 W
4,900.00	3.24	263.18	4,897.13	-12.21	-102.11	374,508.21	689,604.54	32° 1' 41.38 N	103° 43' 17.448 W
4,950.00	3.24	263.18	4,947.05	-12.55	-104.91	374,507.87	689,601.74	32° 1' 41.38 N	103° 43' 17.481 W
5,000.00	3.24	263.18	4,996.97	-12.88	-107.72	374,507.53	689,598.93	32° 1' 41.38 N	103° 43' 17.513 W
5,050.00	3.24	263.18	5,046.89	-13.22	-110.53	374,507.20	689,596.12	32° 1' 41.37 N	103° 43' 17.546 W
5,100.00	3.24	263.18	5,096.81	-13.56	-113.33	374,506.86	689,593.32	32° 1' 41.37 N	103° 43' 17.578 W
5,150.00	3.24	263.18	5,146.73	-13.89	-116.14	374,506.53	689,590.51	32° 1' 41.37 N	103° 43' 17.611 W
5,200.00	3.24	263.18	5,196.65	-14.23	-118.95	374,506.19	689,587.70	32° 1' 41.36 N	103° 43' 17.644 W
5,250.00	3.24	263.18	5,246.57	-14.56	-121.76	374,505.86	689,584.90	32° 1' 41.36 N	103° 43' 17.676 W
5,300.00	3.24	263.18	5,296.49	-14.90	-124.56	374,505.52	689,582.09	32° 1' 41.36 N	103° 43' 17.709 W
5,350.00	3.24	263.18	5,346.41	-15.23	-127.37	374,505.18	689,579.28	32° 1' 41.35 N	103° 43' 17.742 W
5,400.00	3.24	263.18	5,396.33	-15.57	-130.18	374,504.85	689,576.48	32° 1' 41.35 N	103° 43' 17.774 W
5,450.00	3.24	263.18	5,446.25	-15.91	-132.98	374,504.51	689,573.67	32° 1' 41.35 N	103° 43' 17.807 W
5,500.00	3.24	263.18	5,496.17	-16.24	-135.79	374,504.18	689,570.86	32° 1' 41.34 N	103° 43' 17.839 W
5,550.00	3.24	263.18	5,546.09	-16.58	-138.60	374,503.84	689,568.06	32° 1' 41.34 N	103° 43' 17.872 W
5,600.00	3.24	263.18	5,596.01	-16.91	-141.40	374,503.51	689,565.25	32° 1' 41.34 N	103° 43' 17.905 W
5,650.00	3.24	263.18	5,645.93	-17.25	-144.21	374,503.17	689,562.44	32° 1' 41.33 N	103° 43' 17.937 W
5,700.00	3.24	263.18	5,695.85	-17.58	-147.02	374,502.83	689,559.64	32° 1' 41.33 N	103° 43' 17.970 W
5,750.00	3.24	263.18	5,745.77	-17.92	-149.82	374,502.50	689,556.83	32° 1' 41.33 N	103° 43' 18.003 W
5,800.00	3.24	263.18	5,795.69	-18.26	-152.63	374,502.16	689,554.02	32° 1' 41.32 N	103° 43' 18.035 W
5,850.00	3.24	263.18	5,845.61	-18.59	-155.44	374,501.83	689,551.22	32° 1' 41.32 N	103° 43' 18.068 W
5,900.00	3.24	263.18	5,895.53	-18.93	-158.24	374,501.49	689,548.41	32° 1' 41.32 N	103° 43' 18.100 W
5,950.00	3.24	263.18	5,945.45	-19.26	-161.05	374,501.16	689,545.60	32° 1' 41.31 N	103° 43' 18.133 W
6,000.00	3.24	263.18	5,995.37	-19.60	-163.86	374,500.82	689,542.80	32° 1' 41.31 N	103° 43' 18.166 W
6,050.00	3.24	263.18	6,045.29	-19.93	-166.66	374,500.48	689,539.99	32° 1' 41.31 N	103° 43' 18.198 W
6,100.00	3.24	263.18	6,095.21	-20.27	-169.47	374,500.15	689,537.18	32° 1' 41.31 N	103° 43' 18.231 W
6,150.00	3.24	263.18	6,145.13	-20.61	-172.28	374,499.81	689,534.38	32° 1' 41.30 N	103° 43' 18.264 W
6,200.00	3.24	263.18	6,195.05	-20.94	-175.08	374,499.48	689,531.57	32° 1' 41.30 N	103° 43' 18.296 W
6,250.00	3.24	263.18	6,244.98	-21.28	-177.89	374,499.14	689,528.76	32° 1' 41.30 N	103° 43' 18.329 W

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,300.00	3.24	263.18	6,294.90	-21.61	-180.70	374,498.81	689,525.96	32° 1' 41.29 N	103° 43' 18.361 W
6,350.00	3.24	263.18	6,344.82	-21.95	-183.50	374,498.47	689,523.15	32° 1' 41.29 N	103° 43' 18.394 W
6,400.00	3.24	263.18	6,394.74	-22.28	-186.31	374,498.13	689,520.35	32° 1' 41.29 N	103° 43' 18.427 W
6,450.00	3.24	263.18	6,444.66	-22.62	-189.12	374,497.80	689,517.54	32° 1' 41.28 N	103° 43' 18.459 W
6,500.00	3.24	263.18	6,494.58	-22.96	-191.92	374,497.46	689,514.73	32° 1' 41.28 N	103° 43' 18.492 W
6,550.00	3.24	263.18	6,544.50	-23.29	-194.73	374,497.13	689,511.93	32° 1' 41.28 N	103° 43' 18.525 W
6,600.00	3.24	263.18	6,594.42	-23.63	-197.54	374,496.79	689,509.12	32° 1' 41.27 N	103° 43' 18.557 W
6,650.00	3.24	263.18	6,644.34	-23.96	-200.34	374,496.46	689,506.31	32° 1' 41.27 N	103° 43' 18.590 W
6,700.00	3.24	263.18	6,694.26	-24.30	-203.15	374,496.12	689,503.51	32° 1' 41.27 N	103° 43' 18.622 W
6,750.00	3.24	263.18	6,744.18	-24.63	-205.96	374,495.78	689,500.70	32° 1' 41.26 N	103° 43' 18.655 W
6,800.00	3.24	263.18	6,794.10	-24.97	-208.76	374,495.45	689,497.89	32° 1' 41.26 N	103° 43' 18.688 W
6,850.00	3.24	263.18	6,844.02	-25.31	-211.57	374,495.11	689,495.09	32° 1' 41.26 N	103° 43' 18.720 W
6,900.00	3.24	263.18	6,893.94	-25.64	-214.38	374,494.78	689,492.28	32° 1' 41.25 N	103° 43' 18.753 W
6,950.00	3.24	263.18	6,943.86	-25.98	-217.18	374,494.44	689,489.47	32° 1' 41.25 N	103° 43' 18.786 W
7,000.00	3.24	263.18	6,993.78	-26.31	-219.99	374,494.11	689,486.67	32° 1' 41.25 N	103° 43' 18.818 W
7,050.00	3.24	263.18	7,043.70	-26.65	-222.80	374,493.77	689,483.86	32° 1' 41.25 N	103° 43' 18.851 W
7,100.00	3.24	263.18	7,093.62	-26.99	-225.60	374,493.43	689,481.05	32° 1' 41.24 N	103° 43' 18.883 W
7,150.00	3.24	263.18	7,143.54	-27.32	-228.41	374,493.10	689,478.25	32° 1' 41.24 N	103° 43' 18.916 W
7,200.00	3.24	263.18	7,193.46	-27.66	-231.22	374,492.76	689,475.44	32° 1' 41.24 N	103° 43' 18.949 W
7,250.00	3.24	263.18	7,243.38	-27.99	-234.02	374,492.43	689,472.63	32° 1' 41.23 N	103° 43' 18.981 W
7,300.00	3.24	263.18	7,293.30	-28.33	-236.83	374,492.09	689,469.83	32° 1' 41.23 N	103° 43' 19.014 W
7,350.00	3.24	263.18	7,343.22	-28.66	-239.64	374,491.76	689,467.02	32° 1' 41.23 N	103° 43' 19.047 W
7,400.00	3.24	263.18	7,393.14	-29.00	-242.44	374,491.42	689,464.21	32° 1' 41.22 N	103° 43' 19.079 W
7,450.00	3.24	263.18	7,443.06	-29.34	-245.25	374,491.08	689,461.41	32° 1' 41.22 N	103° 43' 19.112 W
7,500.00	3.24	263.18	7,492.98	-29.67	-248.06	374,490.75	689,458.60	32° 1' 41.22 N	103° 43' 19.144 W
7,550.00	3.24	263.18	7,542.90	-30.01	-250.86	374,490.41	689,455.79	32° 1' 41.21 N	103° 43' 19.177 W
7,600.00	3.24	263.18	7,592.82	-30.34	-253.67	374,490.08	689,452.99	32° 1' 41.21 N	103° 43' 19.210 W
7,650.00	3.24	263.18	7,642.74	-30.68	-256.48	374,489.74	689,450.18	32° 1' 41.21 N	103° 43' 19.242 W
7,700.00	3.24	263.18	7,692.66	-31.01	-259.28	374,489.41	689,447.37	32° 1' 41.20 N	103° 43' 19.275 W
7,750.00	3.24	263.18	7,742.58	-31.35	-262.09	374,489.07	689,444.57	32° 1' 41.20 N	103° 43' 19.308 W
7,800.00	3.24	263.18	7,792.50	-31.69	-264.90	374,488.73	689,441.76	32° 1' 41.20 N	103° 43' 19.340 W
7,850.00	3.24	263.18	7,842.42	-32.02	-267.70	374,488.40	689,438.95	32° 1' 41.19 N	103° 43' 19.373 W
7,900.00	3.24	263.18	7,892.34	-32.36	-270.51	374,488.06	689,436.15	32° 1' 41.19 N	103° 43' 19.405 W
7,950.00	3.24	263.18	7,942.26	-32.69	-273.32	374,487.73	689,433.34	32° 1' 41.19 N	103° 43' 19.438 W
8,000.00	3.24	263.18	7,992.18	-33.03	-276.12	374,487.39	689,430.53	32° 1' 41.19 N	103° 43' 19.471 W
8,050.00	3.24	263.18	8,042.10	-33.36	-278.93	374,487.06	689,427.73	32° 1' 41.18 N	103° 43' 19.503 W
8,100.00	3.24	263.18	8,092.02	-33.70	-281.74	374,486.72	689,424.92	32° 1' 41.18 N	103° 43' 19.536 W
8,150.00	3.24	263.18	8,141.94	-34.04	-284.54	374,486.38	689,422.12	32° 1' 41.18 N	103° 43' 19.568 W
8,200.00	3.24	263.18	8,191.86	-34.37	-287.35	374,486.05	689,419.31	32° 1' 41.17 N	103° 43' 19.601 W
8,250.00	3.24	263.18	8,241.78	-34.71	-290.16	374,485.71	689,416.50	32° 1' 41.17 N	103° 43' 19.634 W
8,300.00	3.24	263.18	8,291.70	-35.04	-292.96	374,485.38	689,413.70	32° 1' 41.17 N	103° 43' 19.666 W
8,350.00	3.24	263.18	8,341.62	-35.38	-295.77	374,485.04	689,410.89	32° 1' 41.16 N	103° 43' 19.699 W
8,400.00	3.24	263.18	8,391.54	-35.71	-298.58	374,484.71	689,408.08	32° 1' 41.16 N	103° 43' 19.732 W
8,450.00	3.24	263.18	8,441.46	-36.05	-301.38	374,484.37	689,405.28	32° 1' 41.16 N	103° 43' 19.764 W
8,500.00	3.24	263.18	8,491.38	-36.39	-304.19	374,484.04	689,402.47	32° 1' 41.15 N	103° 43' 19.797 W
8,550.00	3.24	263.18	8,541.30	-36.72	-307.00	374,483.70	689,399.66	32° 1' 41.15 N	103° 43' 19.829 W
8,600.00	3.24	263.18	8,591.22	-37.06	-309.80	374,483.36	689,396.86	32° 1' 41.15 N	103° 43' 19.862 W
8,650.00	3.24	263.18	8,641.14	-37.39	-312.61	374,483.03	689,394.05	32° 1' 41.14 N	103° 43' 19.895 W
8,700.00	3.24	263.18	8,691.06	-37.73	-315.42	374,482.69	689,391.24	32° 1' 41.14 N	103° 43' 19.927 W
8,750.00	3.24	263.18	8,740.98	-38.06	-318.22	374,482.36	689,388.44	32° 1' 41.14 N	103° 43' 19.960 W
8,800.00	3.24	263.18	8,790.90	-38.40	-321.03	374,482.02	689,385.63	32° 1' 41.13 N	103° 43' 19.993 W
8,850.00	3.24	263.18	8,840.82	-38.74	-323.84	374,481.69	689,382.82	32° 1' 41.13 N	103° 43' 20.025 W
8,900.00	3.24	263.18	8,890.74	-39.07	-326.65	374,481.35	689,380.02	32° 1' 41.13 N	103° 43' 20.058 W
8,950.00	3.24	263.18	8,940.66	-39.41	-329.45	374,481.01	689,377.21	32° 1' 41.13 N	103° 43' 20.090 W
9,000.00	3.24	263.18	8,990.58	-39.74	-332.26	374,480.68	689,374.40	32° 1' 41.12 N	103° 43' 20.123 W
9,050.00	3.24	263.18	9,040.50	-40.08	-335.07	374,480.34	689,371.60	32° 1' 41.12 N	103° 43' 20.156 W
9,100.00	3.24	263.18	9,090.42	-40.41	-337.87	374,480.01	689,368.79	32° 1' 41.12 N	103° 43' 20.188 W
9,150.00	3.24	263.18	9,140.34	-40.75	-340.68	374,479.67	689,365.98	32° 1' 41.11 N	103° 43' 20.221 W
9,200.00	3.24	263.18	9,190.26	-41.09	-343.49	374,479.34	689,363.18	32° 1' 41.11 N	103° 43' 20.254 W
9,250.00	3.24	263.18	9,240.18	-41.42	-346.29	374,479.00	689,360.37	32° 1' 41.11 N	103° 43' 20.286 W
9,300.00	3.24	263.18	9,290.10	-41.76	-349.10	374,478.66	689,357.56	32° 1' 41.10 N	103° 43' 20.319 W
9,350.00	3.24	263.18	9,340.02	-42.09	-351.91	374,478.33	689,354.76	32° 1' 41.10 N	103° 43' 20.351 W
9,400.00	3.24	263.18	9,389.94	-42.43	-354.71	374,477.99	689,351.95	32° 1' 41.10 N	103° 43' 20.384 W
9,450.00	3.24	263.18	9,439.86	-42.76	-357.52	374,477.66	689,349.14	32° 1' 41.09 N	103° 43' 20.417 W
9,500.00	3.24	263.18	9,489.78	-43.10	-360.33	374,477.32	689,346.34	32° 1' 41.09 N	103° 43' 20.449 W
9,550.00	3.24	263.18	9,539.70	-43.44	-363.13	374,476.99	689,343.53	32° 1' 41.09 N	103° 43' 20.482 W
9,600.00	3.24	263.18	9,589.62	-43.77	-365.94	374,476.65	689,340.72	32° 1' 41.08 N	103° 43' 20.515 W

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,650.00	3.24	263.18	9,639.54	-44.11	-368.75	374,476.31	689,337.92	32° 1' 41.08 N	103° 43' 20.547 W
9,700.00	3.24	263.18	9,689.46	-44.44	-371.55	374,475.98	689,335.11	32° 1' 41.08 N	103° 43' 20.580 W
9,750.00	3.24	263.18	9,739.38	-44.78	-374.36	374,475.64	689,332.30	32° 1' 41.07 N	103° 43' 20.612 W
9,800.00	3.24	263.18	9,789.30	-45.11	-377.17	374,475.31	689,329.50	32° 1' 41.07 N	103° 43' 20.645 W
9,850.00	3.24	263.18	9,839.22	-45.45	-379.97	374,474.97	689,326.69	32° 1' 41.07 N	103° 43' 20.678 W
9,900.00	3.24	263.18	9,889.14	-45.79	-382.78	374,474.64	689,323.89	32° 1' 41.06 N	103° 43' 20.710 W
9,950.00	3.24	263.18	9,939.06	-46.12	-385.59	374,474.30	689,321.08	32° 1' 41.06 N	103° 43' 20.743 W
10,000.00	3.24	263.18	9,988.98	-46.46	-388.39	374,473.96	689,318.27	32° 1' 41.06 N	103° 43' 20.776 W
10,050.00	3.24	263.18	10,038.90	-46.79	-391.20	374,473.63	689,315.47	32° 1' 41.06 N	103° 43' 20.808 W
10,100.00	3.24	263.18	10,088.82	-47.13	-394.01	374,473.29	689,312.66	32° 1' 41.05 N	103° 43' 20.841 W
10,150.00	3.24	263.18	10,138.74	-47.46	-396.81	374,472.96	689,309.85	32° 1' 41.05 N	103° 43' 20.873 W
10,200.00	3.24	263.18	10,188.66	-47.80	-399.62	374,472.62	689,307.05	32° 1' 41.05 N	103° 43' 20.906 W
10,250.00	3.24	263.18	10,238.58	-48.14	-402.43	374,472.29	689,304.24	32° 1' 41.04 N	103° 43' 20.939 W
10,300.00	3.24	263.18	10,288.50	-48.47	-405.23	374,471.95	689,301.43	32° 1' 41.04 N	103° 43' 20.971 W
10,350.00	3.24	263.18	10,338.42	-48.81	-408.04	374,471.61	689,298.63	32° 1' 41.04 N	103° 43' 21.004 W
10,400.00	3.24	263.18	10,388.34	-49.14	-410.85	374,471.28	689,295.82	32° 1' 41.03 N	103° 43' 21.037 W
10,450.00	3.24	263.18	10,438.26	-49.48	-413.65	374,470.94	689,293.01	32° 1' 41.03 N	103° 43' 21.069 W
10,500.00	3.24	263.18	10,488.18	-49.81	-416.46	374,470.61	689,290.21	32° 1' 41.03 N	103° 43' 21.102 W
10,550.00	3.24	263.18	10,538.10	-50.15	-419.27	374,470.27	689,287.40	32° 1' 41.02 N	103° 43' 21.134 W
10,600.00	3.24	263.18	10,588.02	-50.49	-422.07	374,469.94	689,284.59	32° 1' 41.02 N	103° 43' 21.167 W
10,650.00	3.24	263.18	10,637.94	-50.82	-424.88	374,469.60	689,281.79	32° 1' 41.02 N	103° 43' 21.200 W
10,651.11	3.24	263.18	10,639.04	-50.83	-424.94	374,469.59	689,281.72	32° 1' 41.02 N	103° 43' 21.200 W
10,700.00	2.26	263.18	10,687.88	-51.11	-427.27	374,469.31	689,279.39	32° 1' 41.01 N	103° 43' 21.227 W
10,750.00	1.26	263.18	10,737.85	-51.29	-428.80	374,469.13	689,277.87	32° 1' 41.01 N	103° 43' 21.245 W
10,800.00	0.26	263.18	10,787.85	-51.37	-429.46	374,469.05	689,277.21	32° 1' 41.01 N	103° 43' 21.253 W
10,813.15	0.00	0.01	10,801.00	-51.37	-429.49	374,469.05	689,277.18	32° 1' 41.01 N	103° 43' 21.253 W
10,850.00	0.00	0.00	10,837.85	-51.37	-429.49	374,469.05	689,277.18	32° 1' 41.01 N	103° 43' 21.253 W
10,896.95	0.00	0.00	10,884.80	-51.37	-429.49	374,469.05	689,277.18	32° 1' 41.01 N	103° 43' 21.253 W
10,900.00	0.24	179.42	10,887.85	-51.38	-429.49	374,469.04	689,277.18	32° 1' 41.01 N	103° 43' 21.253 W
10,950.00	4.24	179.42	10,937.80	-53.34	-429.47	374,467.08	689,277.20	32° 1' 40.99 N	103° 43' 21.253 W
11,000.00	8.24	179.42	10,987.49	-58.77	-429.42	374,461.65	689,277.25	32° 1' 40.94 N	103° 43' 21.253 W
11,050.00	12.24	179.42	11,036.69	-67.66	-429.33	374,452.76	689,277.34	32° 1' 40.85 N	103° 43' 21.252 W
11,100.00	16.24	179.42	11,085.14	-79.96	-429.20	374,440.46	689,277.47	32° 1' 40.73 N	103° 43' 21.252 W
11,150.00	20.24	179.42	11,132.62	-95.61	-429.04	374,424.81	689,277.63	32° 1' 40.57 N	103° 43' 21.251 W
11,200.00	24.24	179.42	11,178.89	-114.53	-428.85	374,405.89	689,277.82	32° 1' 40.39 N	103° 43' 21.250 W
11,250.00	28.24	179.42	11,223.72	-136.64	-428.62	374,383.79	689,278.05	32° 1' 40.17 N	103° 43' 21.249 W
11,300.00	32.24	179.42	11,266.91	-161.81	-428.36	374,358.61	689,278.30	32° 1' 39.92 N	103° 43' 21.247 W
11,350.00	36.24	179.42	11,308.23	-189.94	-428.08	374,330.48	689,278.59	32° 1' 39.64 N	103° 43' 21.246 W
11,400.00	40.24	179.42	11,347.50	-220.89	-427.76	374,299.54	689,278.90	32° 1' 39.33 N	103° 43' 21.244 W
11,450.00	44.24	179.42	11,384.50	-254.49	-427.42	374,265.94	689,279.25	32° 1' 39.00 N	103° 43' 21.243 W
11,500.00	48.24	179.42	11,419.08	-290.60	-427.05	374,229.84	689,279.62	32° 1' 38.64 N	103° 43' 21.241 W
11,550.00	52.24	179.42	11,451.04	-329.03	-426.66	374,191.41	689,280.01	32° 1' 38.26 N	103° 43' 21.239 W
11,600.00	56.24	179.42	11,480.26	-369.59	-426.24	374,150.85	689,280.42	32° 1' 37.86 N	103° 43' 21.236 W
11,650.00	60.24	179.42	11,506.57	-412.09	-425.81	374,108.34	689,280.86	32° 1' 37.44 N	103° 43' 21.234 W
11,700.00	64.24	179.42	11,529.85	-456.33	-425.36	374,064.11	689,281.31	32° 1' 37.00 N	103° 43' 21.232 W
11,750.00	68.24	179.42	11,549.98	-502.08	-424.89	374,018.36	689,281.77	32° 1' 36.55 N	103° 43' 21.229 W
11,800.00	72.24	179.42	11,566.88	-549.13	-424.41	373,971.32	689,282.25	32° 1' 36.09 N	103° 43' 21.227 W
11,850.00	76.24	179.42	11,580.46	-597.24	-423.92	373,923.21	689,282.74	32° 1' 35.61 N	103° 43' 21.224 W
11,900.00	80.24	179.42	11,590.64	-646.17	-423.42	373,874.28	689,283.24	32° 1' 35.13 N	103° 43' 21.222 W
11,950.00	84.24	179.42	11,597.39	-695.70	-422.92	373,824.75	689,283.75	32° 1' 34.64 N	103° 43' 21.219 W
12,000.00	88.24	179.42	11,600.66	-745.58	-422.41	373,774.87	689,284.26	32° 1' 34.14 N	103° 43' 21.217 W
12,021.95	90.00	179.42	11,601.00	-767.53	-422.18	373,752.92	689,284.48	32° 1' 33.93 N	103° 43' 21.215 W
12,050.00	90.00	179.42	11,601.00	-795.58	-421.90	373,724.88	689,284.77	32° 1' 33.65 N	103° 43' 21.214 W
12,100.00	90.00	179.42	11,601.00	-845.58	-421.39	373,674.89	689,285.28	32° 1' 33.15 N	103° 43' 21.211 W
12,150.00	90.00	179.42	11,601.00	-895.57	-420.88	373,624.89	689,285.79	32° 1' 32.66 N	103° 43' 21.209 W
12,200.00	90.00	179.42	11,601.00	-945.57	-420.37	373,574.90	689,286.30	32° 1' 32.16 N	103° 43' 21.206 W
12,250.00	90.00	179.42	11,601.00	-995.57	-419.86	373,524.90	689,286.81	32° 1' 31.67 N	103° 43' 21.203 W
12,300.00	90.00	179.42	11,601.00	-1,045.56	-419.35	373,474.91	689,287.32	32° 1' 31.17 N	103° 43' 21.201 W
12,350.00	90.00	179.42	11,601.00	-1,095.56	-418.84	373,424.91	689,287.83	32° 1' 30.68 N	103° 43' 21.198 W
12,400.00	90.00	179.42	11,601.00	-1,145.56	-418.33	373,374.92	689,288.34	32° 1' 30.18 N	103° 43' 21.195 W
12,450.00	90.00	179.42	11,601.00	-1,195.56	-417.82	373,324.92	689,288.85	32° 1' 29.69 N	103° 43' 21.193 W
12,500.00	90.00	179.42	11,601.00	-1,245.55	-417.31	373,274.93	689,289.36	32° 1' 29.19 N	103° 43' 21.190 W
12,550.00	90.00	179.42	11,601.00	-1,295.55	-416.80	373,224.93	689,289.87	32° 1' 28.70 N	103° 43' 21.187 W
12,600.00	90.00	179.42	11,601.00	-1,345.55	-416.29	373,174.94	689,290.38	32° 1' 28.20 N	103° 43' 21.185 W
12,650.00	90.00	179.42	11,601.00	-1,395.55	-415.78	373,124.94	689,290.89	32° 1' 27.71 N	103° 43' 21.182 W
12,700.00	90.00	179.42	11,601.00	-1,445.54	-415.27	373,074.95	689,291.40	32° 1' 27.22 N	103° 43' 21.180 W
12,750.00	90.00	179.42	11,601.00	-1,495.54	-414.76	373,024.95	689,291.91	32° 1' 26.72 N	103° 43' 21.177 W

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
12,800.00	90.00	179.42	11,601.00	-1,545.54	-414.25	372,974.96	689,292.42	32° 1' 26.23 N	103° 43' 21.174 W
12,850.00	90.00	179.42	11,601.00	-1,595.54	-413.74	372,924.96	689,292.93	32° 1' 25.73 N	103° 43' 21.172 W
12,900.00	90.00	179.42	11,601.00	-1,645.53	-413.23	372,874.97	689,293.44	32° 1' 25.24 N	103° 43' 21.169 W
12,950.00	90.00	179.42	11,601.00	-1,695.53	-412.72	372,824.97	689,293.95	32° 1' 24.74 N	103° 43' 21.166 W
13,000.00	90.00	179.42	11,601.00	-1,745.53	-412.21	372,774.98	689,294.46	32° 1' 24.25 N	103° 43' 21.164 W
13,050.00	90.00	179.42	11,601.00	-1,795.53	-411.70	372,724.98	689,294.97	32° 1' 23.75 N	103° 43' 21.161 W
13,100.00	90.00	179.42	11,601.00	-1,845.52	-411.19	372,674.99	689,295.48	32° 1' 23.26 N	103° 43' 21.158 W
13,150.00	90.00	179.42	11,601.00	-1,895.52	-410.68	372,624.99	689,295.99	32° 1' 22.76 N	103° 43' 21.156 W
13,200.00	90.00	179.42	11,601.00	-1,945.52	-410.17	372,575.00	689,296.50	32° 1' 22.27 N	103° 43' 21.153 W
13,250.00	90.00	179.42	11,601.00	-1,995.52	-409.66	372,525.00	689,297.01	32° 1' 21.77 N	103° 43' 21.151 W
13,300.00	90.00	179.42	11,601.00	-2,045.51	-409.15	372,475.01	689,297.52	32° 1' 21.28 N	103° 43' 21.148 W
13,350.00	90.00	179.42	11,601.00	-2,095.51	-408.64	372,425.01	689,298.03	32° 1' 20.78 N	103° 43' 21.145 W
13,400.00	90.00	179.42	11,601.00	-2,145.51	-408.12	372,375.02	689,298.54	32° 1' 20.29 N	103° 43' 21.143 W
13,450.00	90.00	179.42	11,601.00	-2,195.51	-407.61	372,325.02	689,299.05	32° 1' 19.79 N	103° 43' 21.140 W
13,500.00	90.00	179.42	11,601.00	-2,245.50	-407.10	372,275.03	689,299.56	32° 1' 19.30 N	103° 43' 21.137 W
13,550.00	90.00	179.42	11,601.00	-2,295.50	-406.59	372,225.03	689,300.07	32° 1' 18.80 N	103° 43' 21.135 W
13,600.00	90.00	179.42	11,601.00	-2,345.50	-406.08	372,175.04	689,300.58	32° 1' 18.31 N	103° 43' 21.132 W
13,650.00	90.00	179.42	11,601.00	-2,395.49	-405.57	372,125.04	689,301.09	32° 1' 17.81 N	103° 43' 21.129 W
13,700.00	90.00	179.42	11,601.00	-2,445.49	-405.06	372,075.05	689,301.60	32° 1' 17.32 N	103° 43' 21.127 W
13,750.00	90.00	179.42	11,601.00	-2,495.49	-404.55	372,025.05	689,302.11	32° 1' 16.82 N	103° 43' 21.124 W
13,800.00	90.00	179.42	11,601.00	-2,545.49	-404.04	371,975.06	689,302.62	32° 1' 16.33 N	103° 43' 21.121 W
13,850.00	90.00	179.42	11,601.00	-2,595.48	-403.53	371,925.06	689,303.13	32° 1' 15.84 N	103° 43' 21.119 W
13,900.00	90.00	179.42	11,601.00	-2,645.48	-403.02	371,875.07	689,303.64	32° 1' 15.34 N	103° 43' 21.116 W
13,950.00	90.00	179.42	11,601.00	-2,695.48	-402.51	371,825.07	689,304.15	32° 1' 14.85 N	103° 43' 21.114 W
14,000.00	90.00	179.42	11,601.00	-2,745.48	-402.00	371,775.08	689,304.66	32° 1' 14.35 N	103° 43' 21.111 W
14,050.00	90.00	179.42	11,601.00	-2,795.47	-401.49	371,725.08	689,305.17	32° 1' 13.86 N	103° 43' 21.108 W
14,100.00	90.00	179.42	11,601.00	-2,845.47	-400.98	371,675.09	689,305.68	32° 1' 13.36 N	103° 43' 21.106 W
14,150.00	90.00	179.42	11,601.00	-2,895.47	-400.47	371,625.09	689,306.19	32° 1' 12.87 N	103° 43' 21.103 W
14,200.00	90.00	179.42	11,601.00	-2,945.47	-399.96	371,575.10	689,306.70	32° 1' 12.37 N	103° 43' 21.100 W
14,250.00	90.00	179.42	11,601.00	-2,995.46	-399.45	371,525.10	689,307.21	32° 1' 11.88 N	103° 43' 21.098 W
14,300.00	90.00	179.42	11,601.00	-3,045.46	-398.94	371,475.11	689,307.72	32° 1' 11.38 N	103° 43' 21.095 W
14,350.00	90.00	179.42	11,601.00	-3,095.46	-398.43	371,425.11	689,308.23	32° 1' 10.89 N	103° 43' 21.092 W
14,400.00	90.00	179.42	11,601.00	-3,145.46	-397.92	371,375.12	689,308.74	32° 1' 10.39 N	103° 43' 21.090 W
14,450.00	90.00	179.42	11,601.00	-3,195.45	-397.41	371,325.12	689,309.25	32° 1' 9.90 N	103° 43' 21.087 W
14,500.00	90.00	179.42	11,601.00	-3,245.45	-396.90	371,275.13	689,309.76	32° 1' 9.40 N	103° 43' 21.084 W
14,550.00	90.00	179.42	11,601.00	-3,295.45	-396.39	371,225.13	689,310.27	32° 1' 8.91 N	103° 43' 21.082 W
14,600.00	90.00	179.42	11,601.00	-3,345.45	-395.88	371,175.14	689,310.78	32° 1' 8.41 N	103° 43' 21.079 W
14,650.00	90.00	179.42	11,601.00	-3,395.44	-395.37	371,125.14	689,311.29	32° 1' 7.92 N	103° 43' 21.077 W
14,700.00	90.00	179.42	11,601.00	-3,445.44	-394.86	371,075.15	689,311.80	32° 1' 7.42 N	103° 43' 21.074 W
14,750.00	90.00	179.42	11,601.00	-3,495.44	-394.35	371,025.15	689,312.31	32° 1' 6.93 N	103° 43' 21.071 W
14,800.00	90.00	179.42	11,601.00	-3,545.43	-393.84	370,975.16	689,312.82	32° 1' 6.43 N	103° 43' 21.069 W
14,850.00	90.00	179.42	11,601.00	-3,595.43	-393.33	370,925.16	689,313.33	32° 1' 5.94 N	103° 43' 21.066 W
14,900.00	90.00	179.42	11,601.00	-3,645.43	-392.82	370,875.17	689,313.84	32° 1' 5.44 N	103° 43' 21.063 W
14,950.00	90.00	179.42	11,601.00	-3,695.43	-392.31	370,825.17	689,314.35	32° 1' 4.95 N	103° 43' 21.061 W
15,000.00	90.00	179.42	11,601.00	-3,745.42	-391.80	370,775.18	689,314.86	32° 1' 4.46 N	103° 43' 21.058 W
15,050.00	90.00	179.42	11,601.00	-3,795.42	-391.29	370,725.19	689,315.37	32° 1' 3.96 N	103° 43' 21.055 W
15,100.00	90.00	179.42	11,601.00	-3,845.42	-390.78	370,675.19	689,315.88	32° 1' 3.47 N	103° 43' 21.053 W
15,150.00	90.00	179.42	11,601.00	-3,895.42	-390.27	370,625.20	689,316.39	32° 1' 2.97 N	103° 43' 21.050 W
15,200.00	90.00	179.42	11,601.00	-3,945.41	-389.76	370,575.20	689,316.90	32° 1' 2.48 N	103° 43' 21.047 W
15,250.00	90.00	179.42	11,601.00	-3,995.41	-389.25	370,525.21	689,317.41	32° 1' 1.98 N	103° 43' 21.045 W
15,300.00	90.00	179.42	11,601.00	-4,045.41	-388.74	370,475.21	689,317.92	32° 1' 1.49 N	103° 43' 21.042 W
15,350.00	90.00	179.42	11,601.00	-4,095.41	-388.23	370,425.22	689,318.43	32° 1' 0.99 N	103° 43' 21.040 W
15,400.00	90.00	179.42	11,601.00	-4,145.40	-387.72	370,375.22	689,318.94	32° 1' 0.50 N	103° 43' 21.037 W
15,450.00	90.00	179.42	11,601.00	-4,195.40	-387.21	370,325.23	689,319.45	32° 1' 0.00 N	103° 43' 21.034 W
15,500.00	90.00	179.42	11,601.00	-4,245.40	-386.70	370,275.23	689,319.96	32° 0' 59.51 N	103° 43' 21.032 W
15,550.00	90.00	179.42	11,601.00	-4,295.40	-386.19	370,225.24	689,320.47	32° 0' 59.01 N	103° 43' 21.029 W
15,600.00	90.00	179.42	11,601.00	-4,345.39	-385.68	370,175.24	689,320.99	32° 0' 58.52 N	103° 43' 21.026 W
15,650.00	90.00	179.42	11,601.00	-4,395.39	-385.17	370,125.25	689,321.50	32° 0' 58.02 N	103° 43' 21.024 W
15,700.00	90.00	179.42	11,601.00	-4,445.39	-384.66	370,075.25	689,322.01	32° 0' 57.53 N	103° 43' 21.021 W
15,750.00	90.00	179.42	11,601.00	-4,495.39	-384.15	370,025.26	689,322.52	32° 0' 57.03 N	103° 43' 21.018 W
15,800.00	90.00	179.42	11,601.00	-4,545.38	-383.64	369,975.26	689,323.03	32° 0' 56.54 N	103° 43' 21.016 W
15,850.00	90.00	179.42	11,601.00	-4,595.38	-383.13	369,925.27	689,323.54	32° 0' 56.04 N	103° 43' 21.013 W
15,900.00	90.00	179.42	11,601.00	-4,645.38	-382.62	369,875.27	689,324.05	32° 0' 55.55 N	103° 43' 21.010 W
15,950.00	90.00	179.42	11,601.00	-4,695.38	-382.11	369,825.28	689,324.56	32° 0' 55.05 N	103° 43' 21.008 W
16,000.00	90.00	179.42	11,601.00	-4,745.37	-381.60	369,775.28	689,325.07	32° 0' 54.56 N	103° 43' 21.005 W
16,050.00	90.00	179.42	11,601.00	-4,795.37	-381.09	369,725.29	689,325.58	32° 0' 54.06 N	103° 43' 21.003 W
16,100.00	90.00	179.42	11,601.00	-4,845.37	-380.58	369,675.29	689,326.09	32° 0' 53.57 N	103° 43' 21.000 W

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
16,150.00	90.00	179.42	11,601.00	-4,895.36	-380.07	369,625.30	689,326.60	32° 0' 53.08 N	103° 43' 20.997 W
16,200.00	90.00	179.42	11,601.00	-4,945.36	-379.56	369,575.30	689,327.11	32° 0' 52.58 N	103° 43' 20.995 W
16,250.00	90.00	179.42	11,601.00	-4,995.36	-379.05	369,525.31	689,327.62	32° 0' 52.09 N	103° 43' 20.992 W
16,300.00	90.00	179.42	11,601.00	-5,045.36	-378.54	369,475.31	689,328.13	32° 0' 51.59 N	103° 43' 20.989 W
16,350.00	90.00	179.42	11,601.00	-5,095.35	-378.03	369,425.32	689,328.64	32° 0' 51.10 N	103° 43' 20.987 W
16,400.00	90.00	179.42	11,601.00	-5,145.35	-377.52	369,375.32	689,329.15	32° 0' 50.60 N	103° 43' 20.984 W
16,450.00	90.00	179.42	11,601.00	-5,195.35	-377.01	369,325.33	689,329.66	32° 0' 50.11 N	103° 43' 20.981 W
16,500.00	90.00	179.42	11,601.00	-5,245.35	-376.50	369,275.33	689,330.17	32° 0' 49.61 N	103° 43' 20.979 W
16,550.00	90.00	179.42	11,601.00	-5,295.34	-375.99	369,225.34	689,330.68	32° 0' 49.12 N	103° 43' 20.976 W
16,600.00	90.00	179.42	11,601.00	-5,345.34	-375.48	369,175.34	689,331.19	32° 0' 48.62 N	103° 43' 20.973 W
16,650.00	90.00	179.42	11,601.00	-5,395.34	-374.97	369,125.35	689,331.70	32° 0' 48.13 N	103° 43' 20.971 W
16,700.00	90.00	179.42	11,601.00	-5,445.34	-374.46	369,075.35	689,332.21	32° 0' 47.63 N	103° 43' 20.968 W
16,750.00	90.00	179.42	11,601.00	-5,495.33	-373.95	369,025.36	689,332.72	32° 0' 47.14 N	103° 43' 20.966 W
16,800.00	90.00	179.42	11,601.00	-5,545.33	-373.44	368,975.36	689,333.23	32° 0' 46.64 N	103° 43' 20.963 W
16,850.00	90.00	179.42	11,601.00	-5,595.33	-372.93	368,925.37	689,333.74	32° 0' 46.15 N	103° 43' 20.960 W
16,900.00	90.00	179.42	11,601.00	-5,645.33	-372.42	368,875.37	689,334.25	32° 0' 45.65 N	103° 43' 20.958 W
16,950.00	90.00	179.42	11,601.00	-5,695.32	-371.91	368,825.38	689,334.76	32° 0' 45.16 N	103° 43' 20.955 W
17,000.00	90.00	179.42	11,601.00	-5,745.32	-371.40	368,775.38	689,335.27	32° 0' 44.66 N	103° 43' 20.952 W
17,050.00	90.00	179.42	11,601.00	-5,795.32	-370.89	368,725.39	689,335.78	32° 0' 44.17 N	103° 43' 20.950 W
17,100.00	90.00	179.42	11,601.00	-5,845.32	-370.38	368,675.39	689,336.29	32° 0' 43.67 N	103° 43' 20.947 W
17,150.00	90.00	179.42	11,601.00	-5,895.31	-369.87	368,625.40	689,336.80	32° 0' 43.18 N	103° 43' 20.944 W
17,200.00	90.00	179.42	11,601.00	-5,945.31	-369.36	368,575.40	689,337.31	32° 0' 42.68 N	103° 43' 20.942 W
17,250.00	90.00	179.42	11,601.00	-5,995.31	-368.85	368,525.41	689,337.82	32° 0' 42.19 N	103° 43' 20.939 W
17,300.00	90.00	179.42	11,601.00	-6,045.30	-368.34	368,475.41	689,338.33	32° 0' 41.70 N	103° 43' 20.936 W
17,350.00	90.00	179.42	11,601.00	-6,095.30	-367.83	368,425.42	689,338.84	32° 0' 41.20 N	103° 43' 20.934 W
17,400.00	90.00	179.42	11,601.00	-6,145.30	-367.32	368,375.42	689,339.35	32° 0' 40.71 N	103° 43' 20.931 W
17,450.00	90.00	179.42	11,601.00	-6,195.30	-366.80	368,325.43	689,339.86	32° 0' 40.21 N	103° 43' 20.929 W
17,500.00	90.00	179.42	11,601.00	-6,245.29	-366.29	368,275.43	689,340.37	32° 0' 39.72 N	103° 43' 20.926 W
17,550.00	90.00	179.42	11,601.00	-6,295.29	-365.78	368,225.44	689,340.88	32° 0' 39.22 N	103° 43' 20.923 W
17,600.00	90.00	179.42	11,601.00	-6,345.29	-365.27	368,175.44	689,341.39	32° 0' 38.73 N	103° 43' 20.921 W
17,650.00	90.00	179.42	11,601.00	-6,395.29	-364.76	368,125.45	689,341.90	32° 0' 38.23 N	103° 43' 20.918 W
17,700.00	90.00	179.42	11,601.00	-6,445.28	-364.25	368,075.45	689,342.41	32° 0' 37.74 N	103° 43' 20.915 W
17,750.00	90.00	179.42	11,601.00	-6,495.28	-363.74	368,025.46	689,342.92	32° 0' 37.24 N	103° 43' 20.913 W
17,800.00	90.00	179.42	11,601.00	-6,545.28	-363.23	367,975.46	689,343.43	32° 0' 36.75 N	103° 43' 20.910 W
17,850.00	90.00	179.42	11,601.00	-6,595.28	-362.72	367,925.47	689,343.94	32° 0' 36.25 N	103° 43' 20.907 W
17,900.00	90.00	179.42	11,601.00	-6,645.27	-362.21	367,875.48	689,344.45	32° 0' 35.76 N	103° 43' 20.905 W
17,950.00	90.00	179.42	11,601.00	-6,695.27	-361.70	367,825.48	689,344.96	32° 0' 35.26 N	103° 43' 20.902 W
18,000.00	90.00	179.42	11,601.00	-6,745.27	-361.19	367,775.49	689,345.47	32° 0' 34.77 N	103° 43' 20.899 W
18,050.00	90.00	179.42	11,601.00	-6,795.27	-360.68	367,725.49	689,345.98	32° 0' 34.27 N	103° 43' 20.897 W
18,100.00	90.00	179.42	11,601.00	-6,845.26	-360.17	367,675.50	689,346.49	32° 0' 33.78 N	103° 43' 20.894 W
18,150.00	90.00	179.42	11,601.00	-6,895.26	-359.66	367,625.50	689,347.00	32° 0' 33.28 N	103° 43' 20.892 W
18,200.00	90.00	179.42	11,601.00	-6,945.26	-359.15	367,575.51	689,347.51	32° 0' 32.79 N	103° 43' 20.889 W
18,250.00	90.00	179.42	11,601.00	-6,995.26	-358.64	367,525.51	689,348.02	32° 0' 32.29 N	103° 43' 20.886 W
18,300.00	90.00	179.42	11,601.00	-7,045.25	-358.13	367,475.52	689,348.53	32° 0' 31.80 N	103° 43' 20.884 W
18,350.00	90.00	179.42	11,601.00	-7,095.25	-357.62	367,425.52	689,349.04	32° 0' 31.30 N	103° 43' 20.881 W
18,400.00	90.00	179.42	11,601.00	-7,145.25	-357.11	367,375.53	689,349.55	32° 0' 30.81 N	103° 43' 20.878 W
18,450.00	90.00	179.42	11,601.00	-7,195.24	-356.60	367,325.53	689,350.06	32° 0' 30.31 N	103° 43' 20.876 W
18,500.00	90.00	179.42	11,601.00	-7,245.24	-356.09	367,275.54	689,350.57	32° 0' 29.82 N	103° 43' 20.873 W
18,550.00	90.00	179.42	11,601.00	-7,295.24	-355.58	367,225.54	689,351.08	32° 0' 29.33 N	103° 43' 20.870 W
18,600.00	90.00	179.42	11,601.00	-7,345.24	-355.07	367,175.55	689,351.59	32° 0' 28.83 N	103° 43' 20.868 W
18,650.00	90.00	179.42	11,601.00	-7,395.23	-354.56	367,125.55	689,352.10	32° 0' 28.34 N	103° 43' 20.865 W
18,700.00	90.00	179.42	11,601.00	-7,445.23	-354.05	367,075.56	689,352.61	32° 0' 27.84 N	103° 43' 20.862 W
18,750.00	90.00	179.42	11,601.00	-7,495.23	-353.54	367,025.56	689,353.12	32° 0' 27.35 N	103° 43' 20.860 W
18,800.00	90.00	179.42	11,601.00	-7,545.23	-353.03	366,975.57	689,353.63	32° 0' 26.85 N	103° 43' 20.857 W
18,850.00	90.00	179.42	11,601.00	-7,595.22	-352.52	366,925.57	689,354.14	32° 0' 26.36 N	103° 43' 20.855 W
18,900.00	90.00	179.42	11,601.00	-7,645.22	-352.01	366,875.58	689,354.65	32° 0' 25.86 N	103° 43' 20.852 W
18,950.00	90.00	179.42	11,601.00	-7,695.22	-351.50	366,825.58	689,355.16	32° 0' 25.37 N	103° 43' 20.849 W
19,000.00	90.00	179.42	11,601.00	-7,745.22	-350.99	366,775.59	689,355.67	32° 0' 24.87 N	103° 43' 20.847 W
19,050.00	90.00	179.42	11,601.00	-7,795.21	-350.48	366,725.59	689,356.18	32° 0' 24.38 N	103° 43' 20.844 W
19,100.00	90.00	179.42	11,601.00	-7,845.21	-349.97	366,675.60	689,356.69	32° 0' 23.88 N	103° 43' 20.841 W
19,150.00	90.00	179.42	11,601.00	-7,895.21	-349.46	366,625.60	689,357.20	32° 0' 23.39 N	103° 43' 20.839 W
19,200.00	90.00	179.42	11,601.00	-7,945.21	-348.95	366,575.61	689,357.71	32° 0' 22.89 N	103° 43' 20.836 W
19,250.00	90.00	179.42	11,601.00	-7,995.20	-348.44	366,525.61	689,358.22	32° 0' 22.40 N	103° 43' 20.833 W
19,300.00	90.00	179.42	11,601.00	-8,045.20	-347.93	366,475.62	689,358.73	32° 0' 21.90 N	103° 43' 20.831 W
19,350.00	90.00	179.42	11,601.00	-8,095.20	-347.42	366,425.62	689,359.24	32° 0' 21.41 N	103° 43' 20.828 W
19,400.00	90.00	179.42	11,601.00	-8,145.20	-346.91	366,375.63	689,359.75	32° 0' 20.91 N	103° 43' 20.825 W
19,450.00	90.00	179.42	11,601.00	-8,195.19	-346.40	366,325.63	689,360.26	32° 0' 20.42 N	103° 43' 20.823 W

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
19,500.00	90.00	179.42	11,601.00	-8,245.19	-345.89	366,275.64	689,360.77	32° 0' 19.92 N	103° 43' 20.820 W
19,550.00	90.00	179.42	11,601.00	-8,295.19	-345.38	366,225.64	689,361.28	32° 0' 19.43 N	103° 43' 20.818 W
19,600.00	90.00	179.42	11,601.00	-8,345.19	-344.87	366,175.65	689,361.79	32° 0' 18.93 N	103° 43' 20.815 W
19,650.00	90.00	179.42	11,601.00	-8,395.18	-344.36	366,125.65	689,362.30	32° 0' 18.44 N	103° 43' 20.812 W
19,700.00	90.00	179.42	11,601.00	-8,445.18	-343.85	366,075.66	689,362.81	32° 0' 17.95 N	103° 43' 20.810 W
19,750.00	90.00	179.42	11,601.00	-8,495.18	-343.34	366,025.66	689,363.32	32° 0' 17.45 N	103° 43' 20.807 W
19,800.00	90.00	179.42	11,601.00	-8,545.17	-342.83	365,975.67	689,363.83	32° 0' 16.96 N	103° 43' 20.804 W
19,850.00	90.00	179.42	11,601.00	-8,595.17	-342.32	365,925.67	689,364.34	32° 0' 16.46 N	103° 43' 20.802 W
19,900.00	90.00	179.42	11,601.00	-8,645.17	-341.81	365,875.68	689,364.85	32° 0' 15.97 N	103° 43' 20.799 W
19,950.00	90.00	179.42	11,601.00	-8,695.17	-341.30	365,825.68	689,365.36	32° 0' 15.47 N	103° 43' 20.796 W
20,000.00	90.00	179.42	11,601.00	-8,745.16	-340.79	365,775.69	689,365.87	32° 0' 14.98 N	103° 43' 20.794 W
20,050.00	90.00	179.42	11,601.00	-8,795.16	-340.28	365,725.69	689,366.38	32° 0' 14.48 N	103° 43' 20.791 W
20,100.00	90.00	179.42	11,601.00	-8,845.16	-339.77	365,675.70	689,366.89	32° 0' 13.99 N	103° 43' 20.788 W
20,150.00	90.00	179.42	11,601.00	-8,895.16	-339.26	365,625.70	689,367.40	32° 0' 13.49 N	103° 43' 20.786 W
20,200.00	90.00	179.42	11,601.00	-8,945.15	-338.75	365,575.71	689,367.91	32° 0' 13.00 N	103° 43' 20.783 W
20,250.00	90.00	179.42	11,601.00	-8,995.15	-338.24	365,525.71	689,368.42	32° 0' 12.50 N	103° 43' 20.781 W
20,300.00	90.00	179.42	11,601.00	-9,045.15	-337.73	365,475.72	689,368.93	32° 0' 12.01 N	103° 43' 20.778 W
20,350.00	90.00	179.42	11,601.00	-9,095.15	-337.22	365,425.72	689,369.44	32° 0' 11.51 N	103° 43' 20.775 W
20,400.00	90.00	179.42	11,601.00	-9,145.14	-336.71	365,375.73	689,369.95	32° 0' 11.02 N	103° 43' 20.773 W
20,450.00	90.00	179.42	11,601.00	-9,195.14	-336.20	365,325.73	689,370.46	32° 0' 10.52 N	103° 43' 20.770 W
20,500.00	90.00	179.42	11,601.00	-9,245.14	-335.69	365,275.74	689,370.97	32° 0' 10.03 N	103° 43' 20.767 W
20,550.00	90.00	179.42	11,601.00	-9,295.14	-335.18	365,225.74	689,371.48	32° 0' 9.53 N	103° 43' 20.765 W
20,600.00	90.00	179.42	11,601.00	-9,345.13	-334.67	365,175.75	689,371.99	32° 0' 9.04 N	103° 43' 20.762 W
20,650.00	90.00	179.42	11,601.00	-9,395.13	-334.16	365,125.75	689,372.50	32° 0' 8.54 N	103° 43' 20.759 W
20,700.00	90.00	179.42	11,601.00	-9,445.13	-333.65	365,075.76	689,373.01	32° 0' 8.05 N	103° 43' 20.757 W
20,750.00	90.00	179.42	11,601.00	-9,495.13	-333.14	365,025.76	689,373.53	32° 0' 7.55 N	103° 43' 20.754 W
20,800.00	90.00	179.42	11,601.00	-9,545.12	-332.63	364,975.77	689,374.04	32° 0' 7.06 N	103° 43' 20.751 W
20,850.00	90.00	179.42	11,601.00	-9,595.12	-332.12	364,925.78	689,374.55	32° 0' 6.57 N	103° 43' 20.749 W
20,900.00	90.00	179.42	11,601.00	-9,645.12	-331.61	364,875.78	689,375.06	32° 0' 6.07 N	103° 43' 20.746 W
20,950.00	90.00	179.42	11,601.00	-9,695.11	-331.10	364,825.79	689,375.57	32° 0' 5.58 N	103° 43' 20.744 W
21,000.00	90.00	179.42	11,601.00	-9,745.11	-330.59	364,775.79	689,376.08	32° 0' 5.08 N	103° 43' 20.741 W
21,050.00	90.00	179.42	11,601.00	-9,795.11	-330.08	364,725.80	689,376.59	32° 0' 4.59 N	103° 43' 20.738 W
21,100.00	90.00	179.42	11,601.00	-9,845.11	-329.57	364,675.80	689,377.10	32° 0' 4.09 N	103° 43' 20.736 W
21,150.00	90.00	179.42	11,601.00	-9,895.10	-329.06	364,625.81	689,377.61	32° 0' 3.60 N	103° 43' 20.733 W
21,200.00	90.00	179.42	11,601.00	-9,945.10	-328.55	364,575.81	689,378.12	32° 0' 3.10 N	103° 43' 20.730 W
21,250.00	90.00	179.42	11,601.00	-9,995.10	-328.04	364,525.82	689,378.63	32° 0' 2.61 N	103° 43' 20.728 W
21,300.00	90.00	179.42	11,601.00	-10,045.10	-327.53	364,475.82	689,379.14	32° 0' 2.11 N	103° 43' 20.725 W
21,350.00	90.00	179.42	11,601.00	-10,095.09	-327.02	364,425.83	689,379.65	32° 0' 1.62 N	103° 43' 20.722 W
21,400.00	90.00	179.42	11,601.00	-10,145.09	-326.51	364,375.83	689,380.16	32° 0' 1.12 N	103° 43' 20.720 W
21,433.24	90.00	179.42	11,601.00	-10,178.33	-326.17	364,342.60	689,380.50	32° 0' 0.79 N	103° 43' 20.718 W

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
ZIA HILLS 19 105H_WP - plan hits target center - Point	0.00	0.01	10,801.0 0	-51.37	-429.49	374,469.05	689,277.18	32° 1' 41.01 N	103° 43' 21.253 W
ZIA HILLS 19 105H_WP - plan hits target center - Point	0.00	0.01	11,601.00	-10,178.33	-326.17	364,342.60	689,380.50	32° 0' 0.79 N	103° 43' 20.718 W