

# Oxy Corral Canyon 36-25 Federal Com 21H Gyro+MWD 0-20,726' Survey Geodetic Report (Def Survey)



30-015-44631

Report Date: March 16, 2018 - 09:43 AM  
Client: OXY  
Field: NM Eddy County (NAD 83)  
Structure / Slot: Oxy Corral Canyon 36-25 Federal Com 21H / Oxy Corral Canyon 36-25 Federal Com 21H  
Well: Oxy Corral Canyon 36-25 Federal Com 21H  
Borehole: Original Borehole  
UWI / API#: Unknown / 30-015-44631  
Survey Name: Oxy Corral Canyon 36-25 Federal Com 21H Gyro+MWD 0-20,726'  
Survey Date: March 06, 2018  
Tort / AHD / DDI / ERD Ratio: 273.263' / 12692.053 ft / 6.897' / 1.394  
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet  
Location Lat / Long: N 32° 9' 55.80132" W 103° 56' 30.39180"  
Location Grid N/E Y/X: N 424184.470 RUS, E 662497.636 RUS  
CRS Grid Convergence Angle: 0.2085°  
Grid Scale Factor: 0.9999259  
Version / Patch: 2.10.706.0

Survey / DLS Computation: Minimum Curvature / Lubinski  
Vertical Section Azimuth: 355.186° (Grid North)  
Vertical Section Origin: 0.000 ft, 0.000 ft  
TVD Reference Datum: RKB=26.5'  
TVD Reference Elevation: 3138.000 ft above MSL  
Seabed / Ground Elevation: 3111.500 ft above MSL  
Magnetic Declination: 6.996°  
Total Gravity Field Strength: 998.4505mgn (9.80665 Based)  
Gravity Model: GARM  
Total Magnetic Field Strength: 48016.973 nT  
Magnetic Dip Angle: 59.930°  
Declination Date: March 06, 2018  
Magnetic Declination Model: HDGM 2018  
North Reference: Grid North  
Grid Convergence Used: 0.2085°  
Total Corr Mag North-Grid North: 6.7880°  
Local Coord Referenced To: Well Head

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ARTESIA DISTRICT

JUN 30 2018

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| Comments  | MD<br>(ft) | Incl<br>(°) | Azim Grid<br>(°) | TVD<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(ft/100ft) | Northing<br>(RUS) | Easting<br>(RUS) | Latitude<br>(N/S ° ' ")         | Longitude<br>(E/W ° ' ") |
|-----------|------------|-------------|------------------|-------------|--------------|------------|------------|-------------------|-------------------|------------------|---------------------------------|--------------------------|
| RKB       | 0.00       | 0.00        | 0.00             | 0.00        | 0.00         | 0.00       | 0.00       | N/A               | 424164.47         | 662497.64        | N 32° 9' 55.80 W 103° 56' 30.39 |                          |
| SHL       | 26.50      | 0.00        | 0.00             | 26.50       | 0.00         | 0.00       | 0.00       | 0.00              | 424164.47         | 662497.64        | N 32° 9' 55.80 W 103° 56' 30.39 |                          |
|           | 109.50     | 0.49        | 65.84            | 109.50      | 0.12         | 0.15       | 0.32       | 0.59              | 424164.62         | 662497.96        | N 32° 9' 55.80 W 103° 56' 30.39 |                          |
|           | 161.50     | 0.21        | 70.26            | 161.50      | 0.22         | 0.27       | 0.62       | 0.54              | 424164.74         | 662498.25        | N 32° 9' 55.80 W 103° 56' 30.38 |                          |
|           | 250.50     | 0.24        | 148.88           | 250.50      | 0.09         | 0.16       | 0.87       | 0.32              | 424164.63         | 662498.50        | N 32° 9' 55.80 W 103° 56' 30.38 |                          |
|           | 341.50     | 0.15        | 116.71           | 341.50      | -0.14        | -0.05      | 1.07       | 0.15              | 424164.42         | 662498.71        | N 32° 9' 55.80 W 103° 56' 30.38 |                          |
|           | 435.50     | 0.72        | 168.63           | 435.49      | -0.79        | -0.69      | 1.30       | 0.68              | 424163.78         | 662498.93        | N 32° 9' 55.79 W 103° 56' 30.38 |                          |
| Last Gyro | 531.50     | 0.62        | 172.59           | 531.49      | -1.91        | -1.79      | 1.48       | 0.11              | 424162.68         | 662499.12        | N 32° 9' 55.78 W 103° 56' 30.37 |                          |
|           | 689.00     | 0.00        | 235.65           | 688.98      | -2.76        | -2.64      | 1.59       | 0.39              | 424161.83         | 662499.23        | N 32° 9' 55.78 W 103° 56' 30.37 |                          |
|           | 804.00     | 0.06        | 281.21           | 803.98      | -2.75        | -2.63      | 1.53       | 0.05              | 424161.84         | 662499.17        | N 32° 9' 55.78 W 103° 56' 30.37 |                          |
|           | 988.00     | 0.33        | 234.62           | 987.98      | -2.99        | -2.91      | 1.01       | 0.16              | 424161.56         | 662498.64        | N 32° 9' 55.77 W 103° 56' 30.38 |                          |
|           | 1054.00    | 0.18        | 219.60           | 1053.98     | -3.16        | -3.10      | 0.79       | 0.25              | 424161.37         | 662498.42        | N 32° 9' 55.77 W 103° 56' 30.38 |                          |
|           | 1147.00    | 0.18        | 169.81           | 1146.98     | -3.41        | -3.36      | 0.72       | 0.16              | 424161.11         | 662498.36        | N 32° 9' 55.77 W 103° 56' 30.38 |                          |
|           | 1241.00    | 0.06        | 48.77            | 1240.98     | -3.53        | -3.47      | 0.78       | 0.23              | 424161.00         | 662498.44        | N 32° 9' 55.77 W 103° 56' 30.38 |                          |
|           | 1361.00    | 0.06        | 208.29           | 1360.98     | -3.54        | -3.49      | 0.80       | 0.10              | 424160.98         | 662498.44        | N 32° 9' 55.77 W 103° 56' 30.38 |                          |
|           | 1453.00    | 0.17        | 228.54           | 1452.98     | -3.66        | -3.62      | 0.67       | 0.13              | 424160.85         | 662498.31        | N 32° 9' 55.77 W 103° 56' 30.38 |                          |
|           | 1546.00    | 0.00        | 237.99           | 1545.98     | -3.75        | -3.71      | 0.57       | 0.18              | 424160.76         | 662498.21        | N 32° 9' 55.76 W 103° 56' 30.39 |                          |
|           | 1638.00    | 0.08        | 172.97           | 1637.98     | -3.81        | -3.78      | 0.58       | 0.09              | 424160.69         | 662498.22        | N 32° 9' 55.76 W 103° 56' 30.39 |                          |
|           | 1733.00    | 0.18        | 206.97           | 1732.98     | -4.00        | -3.97      | 0.52       | 0.13              | 424160.50         | 662498.16        | N 32° 9' 55.76 W 103° 56' 30.39 |                          |
|           | 1827.00    | 0.17        | 186.57           | 1826.98     | -4.27        | -4.24      | 0.44       | 0.07              | 424160.23         | 662498.07        | N 32° 9' 55.76 W 103° 56' 30.39 |                          |
|           | 1912.00    | 0.11        | 146.44           | 1911.98     | -4.46        | -4.44      | 0.47       | 0.13              | 424160.03         | 662498.10        | N 32° 9' 55.76 W 103° 56' 30.39 |                          |
|           | 1991.00    | 0.12        | 118.20           | 1990.98     | -4.57        | -4.54      | 0.58       | 0.07              | 424159.93         | 662498.22        | N 32° 9' 55.76 W 103° 56' 30.39 |                          |
|           | 2086.00    | 0.11        | 204.78           | 2085.98     | -4.71        | -4.67      | 0.63       | 0.17              | 424159.80         | 662498.27        | N 32° 9' 55.76 W 103° 56' 30.38 |                          |
|           | 2180.00    | 0.08        | 284.85           | 2179.98     | -4.76        | -4.74      | 0.53       | 0.13              | 424159.74         | 662498.17        | N 32° 9' 55.75 W 103° 56' 30.39 |                          |
|           | 2275.00    | 0.12        | 245.27           | 2274.98     | -4.77        | -4.76      | 0.38       | 0.08              | 424159.71         | 662498.01        | N 32° 9' 55.75 W 103° 56' 30.39 |                          |
|           | 2369.00    | 0.06        | 328.38           | 2368.98     | -4.76        | -4.76      | 0.28       | 0.14              | 424159.71         | 662497.90        | N 32° 9' 55.75 W 103° 56' 30.39 |                          |
|           | 2464.00    | 0.06        | 234.59           | 2463.98     | -4.75        | -4.75      | 0.19       | 0.09              | 424159.72         | 662497.83        | N 32° 9' 55.75 W 103° 56' 30.39 |                          |
|           | 2559.00    | 0.11        | 242.98           | 2558.98     | -4.80        | -4.82      | 0.07       | 0.05              | 424159.65         | 662497.71        | N 32° 9' 55.75 W 103° 56' 30.39 |                          |
|           | 2653.00    | 0.12        | 210.90           | 2652.98     | -4.92        | -4.94      | -0.06      | 0.07              | 424159.53         | 662497.58        | N 32° 9' 55.75 W 103° 56' 30.39 |                          |
|           | 2748.00    | 0.06        | 313.12           | 2747.98     | -4.96        | -4.99      | -0.15      | 0.15              | 424159.48         | 662497.49        | N 32° 9' 55.75 W 103° 56' 30.39 |                          |
|           | 2842.00    | 0.11        | 212.35           | 2841.98     | -5.00        | -5.04      | -0.23      | 0.14              | 424159.44         | 662497.41        | N 32° 9' 55.75 W 103° 56' 30.39 |                          |
|           | 2937.00    | 0.18        | 192.77           | 2936.98     | -5.21        | -5.26      | -0.31      | 0.09              | 424159.21         | 662497.32        | N 32° 9' 55.75 W 103° 56' 30.40 |                          |
|           | 3031.00    | 0.16        | 194.36           | 3030.98     | -5.48        | -5.53      | -0.38      | 0.02              | 424158.94         | 662497.26        | N 32° 9' 55.75 W 103° 56' 30.40 |                          |
|           | 3126.00    | 0.16        | 239.63           | 3125.98     | -5.66        | -5.72      | -0.52      | 0.13              | 424158.75         | 662497.11        | N 32° 9' 55.74 W 103° 56' 30.40 |                          |
|           | 3220.00    | 0.06        | 318.75           | 3219.98     | -5.68        | -5.75      | -0.67      | 0.17              | 424158.72         | 662496.97        | N 32° 9' 55.74 W 103° 56' 30.40 |                          |
|           | 3314.00    | 0.12        | 165.36           | 3313.98     | -5.73        | -5.81      | -0.68      | 0.19              | 424158.66         | 662496.96        | N 32° 9' 55.74 W 103° 56' 30.40 |                          |
|           | 3408.00    | 0.12        | 239.01           | 3408.98     | -5.88        | -5.96      | -0.74      | 0.15              | 424158.51         | 662496.90        | N 32° 9' 55.74 W 103° 56' 30.40 |                          |
|           | 3503.00    | 0.06        | 275.73           | 3502.98     | -5.91        | -6.01      | -0.87      | 0.09              | 424158.47         | 662496.78        | N 32° 9' 55.74 W 103° 56' 30.40 |                          |
|           | 3598.00    | 0.08        | 97.32            | 3597.98     | -5.92        | -6.01      | -0.85      | 0.15              | 424158.46         | 662496.78        | N 32° 9' 55.74 W 103° 56' 30.40 |                          |
|           | 3707.00    | 0.08        | 288.95           | 3706.98     | -5.90        | -5.99      | -0.85      | 0.15              | 424158.48         | 662496.78        | N 32° 9' 55.74 W 103° 56' 30.40 |                          |
|           | 3812.00    | 0.08        | 85.75            | 3811.98     | -5.87        | -5.96      | -0.85      | 0.15              | 424158.51         | 662496.79        | N 32° 9' 55.74 W 103° 56' 30.40 |                          |
|           | 3881.00    | 0.08        | 3.60             | 3880.98     | -5.83        | -5.91      | -0.80      | 0.15              | 424158.56         | 662496.84        | N 32° 9' 55.74 W 103° 56' 30.40 |                          |
|           | 4001.00    | 0.08        | 327.48           | 4000.98     | -5.67        | -5.76      | -0.84      | 0.04              | 424158.71         | 662496.80        | N 32° 9' 55.74 W 103° 56' 30.40 |                          |
|           | 4070.00    | 0.12        | 169.29           | 4069.98     | -5.70        | -5.79      | -0.85      | 0.28              | 424158.68         | 662496.79        | N 32° 9' 55.74 W 103° 56' 30.40 |                          |
|           | 4164.00    | 0.08        | 112.20           | 4163.98     | -5.83        | -5.91      | -0.77      | 0.11              | 424158.56         | 662496.87        | N 32° 9' 55.74 W 103° 56' 30.40 |                          |
|           | 4258.00    | 0.08        | 182.13           | 4257.98     | -5.92        | -6.00      | -0.71      | 0.10              | 424158.47         | 662496.92        | N 32° 9' 55.74 W 103° 56' 30.40 |                          |
|           | 4352.00    | 0.08        | 258.02           | 4351.98     | -5.99        | -6.08      | -0.78      | 0.10              | 424158.39         | 662496.86        | N 32° 9' 55.74 W 103° 56' 30.40 |                          |
|           | 4447.00    | 0.08        | 308.39           | 4446.98     | -5.96        | -6.05      | -0.89      | 0.07              | 424158.42         | 662496.74        | N 32° 9' 55.74 W 103° 56' 30.40 |                          |
|           | 4541.00    | 0.08        | 16.44            | 4540.98     | -5.85        | -5.95      | -0.93      | 0.10              | 424158.52         | 662496.71        | N 32° 9' 55.74 W 103° 56' 30.40 |                          |
|           | 4635.00    | 0.67        | 337.48           | 4634.98     | -5.27        | -5.38      | -1.12      | 0.65              | 424159.09         | 662496.52        | N 32° 9' 55.75 W 103° 56' 30.41 |                          |
|           | 4730.00    | 2.06        | 335.97           | 4729.95     | -3.12        | -3.31      | -2.03      | 1.48              | 424161.16         | 662495.81        | N 32° 9' 55.77 W 103° 56' 30.42 |                          |
|           | 4824.00    | 3.13        | 332.90           | 4823.85     | 0.85         | 0.52       | -3.88      | 1.15              | 424164.89         | 662493.75        | N 32° 9' 55.81 W 103° 56' 30.44 |                          |
|           | 4918.00    | 4.27        | 330.87           | 4917.65     | 6.41         | 5.88       | -6.76      | 1.22              | 424170.33         | 662490.88        | N 32° 9' 55.86 W 103° 56' 30.47 |                          |
|           | 5013.00    | 5.53        | 326.86           | 5012.30     | 13.66        | 12.79      | -10.98     | 1.37              | 424177.26         | 662488.68        | N 32° 9' 55.93 W 103° 56' 30.52 |                          |
|           | 5107.00    | 6.51        | 319.29           | 5105.78     | 21.97        | 20.62      | -16.93     | 1.34              | 424185.09         | 662480.70        | N 32° 9' 56.01 W 103° 56' 30.59 |                          |
|           | 5199.00    | 7.68        | 313.57           | 5197.08     | 30.79        | 28.81      | -24.79     | 1.48              | 424193.28         | 662472.85        | N 32° 9' 56.09 W 103° 56' 30.68 |                          |
|           | 5388.00    | 9.07        | 305.74           | 5384.06     | 49.92        | 46.22      | -46.03     | 0.95              | 424210.68         | 662451.61        | N 32° 9' 56.26 W 103° 56' 30.93 |                          |
|           | 5483.00    | 9.48        | 300.88           | 5477.82     | 59.35        | 54.61      | -58.83     | 0.93              | 424219.07         | 662438.82        | N 32° 9' 56.34 W 103° 56' 31.07 |                          |
|           | 5577.00    | 9.71        | 298.26           | 5570.51     | 68.19        | 62.33      | -72.45     | 0.53              | 424226.80         | 662425.19        | N 32° 9' 56.42 W 103° 56' 31.23 |                          |
|           | 5671.00    | 10.34       | 293.96           | 5663.08     | 76.58        | 69.51      | -87.14     | 1.04              | 424233.88         | 662410.50        | N 32° 9' 56.49 W 103° 56' 31.40 |                          |
|           | 5765.00    | 11.24       | 290.02           | 5755.41     | 84.49        | 76.07      | -103.48    | 1.24              | 424240.54         | 662394.18        | N 32° 9' 56.56 W 103° 56' 31.59 |                          |
|           | 5954.00    | 12.82       | 284.85           | 5940.26     | 99.28        | 87.75      | -141.04    | 1.01              | 424252.22         | 662356.61        | N 32° 9' 56.67 W 103° 56' 32.03 |                          |
|           | 6049.00    | 14.10       | 281.73           | 6032.65     | 106.12       | 92.81      | -162.56    | 1.55              | 424257.27         | 662335.09        | N 32° 9' 56.73 W 103° 56' 32.28 |                          |
|           | 6143.00    | 15.45       | 279.81           | 6123.54     | 112.54       | 97.27      | -186.11    | 1.53              | 424261.73         | 662311.54        | N 32° 9' 56.77 W 103° 56' 32.55 |                          |
|           | 6237.00    | 17.03       | 279.11           | 6213.79     | 119.02       | 101.58     | -212.04    | 1.69              | 424266.05         | 662285.61        | N 32° 9' 56.81 W 103° 56' 32.85 |                          |
|           | 6331.00    | 17.35       | 278.82           | 6303.59     | 125.63       | 105.91     | -239.48    | 0.35              | 424270.37         | 662258.17        | N 32° 9' 56.86 W 103° 56' 33.17 |                          |
|           | 6426.00    | 17.11       | 281.23           | 6394.33     | 132.63       | 110.80     | -267.18    | 0.79              | 424275.27         | 662230.47        | N 32° 9' 56.91 W 103° 56' 33.50 |                          |
|           | 6520.00    | 17.27       | 284.26           | 6484.13     | 141.22       | 116.93     | -294.27    | 0.97              | 424281.40         | 662203.39        | N 32° 9' 56.97 W 103° 56' 33.81 |                          |
|           | 6614.00    | 17.07       | 289.90           | 6573.95     | 151.54       | 125.07     | -320.77    | 1.78              | 424289.53         | 662176.89        | N 32° 9' 57.05 W 103° 56' 34.12 |                          |
|           | 6709.00    | 17.03       | 297.28           | 6664.78     | 164.77       | 136.19     | -348.25    | 2.28              | 424300.65         | 662151.42        | N 32° 9' 57.16 W 103° 56' 34.41 |                          |
|           | 6803.00    | 17.27       | 306.43           | 6754.62     | 181.28       | 150.79     | -369.71    | 2.88              | 424315.25         | 662127.95        | N 32° 9' 57.31 W 103° 56' 34.69 |                          |
|           | 6898.00    | 17.27       | 309.88           | 6845.34     | 200.50       | 168.21     | -391.88    | 1.08              | 424332.66         | 662105.79        | N 32° 9' 57.48 W 103° 56' 34.94 |                          |
|           | 6992.00    | 16.86       | 307.74           | 6935.20     | 219.53       | 185.50     | -413.37    | 0.80              | 424349.95         | 662084.30        | N 32° 9' 57.65 W 103° 56' 35.19 |                          |
|           | 7087.00    | 16.78       | 305.80           | 7028.14     | 237.77       | 201.85     | -435.38    | 0.60              | 424366.40         |                  |                                 |                          |

| Comments | MD<br>(ft) | Incl<br>(°) | Azimuth<br>(°) | TVD<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(ft/100ft) | Northing<br>(ft) | Easting<br>(ft) | Latitude<br>(N/S ° ' '') | Longitude<br>(E/W ° ' '') |
|----------|------------|-------------|----------------|-------------|--------------|------------|------------|-------------------|------------------|-----------------|--------------------------|---------------------------|
|          | 7559.00    | 15.95       | 296.23         | 7479.27     | 313.51       | 268.36     | -549.32    | 0.11              | 424432.81        | 661948.36       | N 32° 9' 58.48" W        | 103° 56' 36.77"           |
|          | 7654.00    | 15.28       | 299.84         | 7570.76     | 327.36       | 280.36     | -571.88    | 1.24              | 424444.80        | 661925.79       | N 32° 9' 58.60" W        | 103° 56' 37.03"           |
|          | 7748.00    | 14.07       | 306.48         | 7661.70     | 341.84       | 293.31     | -591.82    | 2.20              | 424457.76        | 661905.86       | N 32° 9' 58.72" W        | 103° 56' 37.26"           |
|          | 7842.00    | 12.34       | 312.70         | 7753.22     | 356.89       | 306.92     | -608.39    | 2.38              | 424471.37        | 661889.29       | N 32° 9' 58.86" W        | 103° 56' 37.46"           |
|          | 7937.00    | 11.46       | 313.62         | 7846.18     | 371.44       | 320.32     | -622.68    | 0.95              | 424484.76        | 661875.00       | N 32° 9' 58.99" W        | 103° 56' 37.62"           |
|          | 8031.00    | 10.54       | 308.25         | 7938.45     | 384.30       | 332.08     | -636.19    | 1.46              | 424496.53        | 661861.49       | N 32° 9' 59.11" W        | 103° 56' 37.78"           |
|          | 8126.00    | 11.44       | 308.57         | 8031.71     | 396.70       | 343.33     | -650.38    | 0.95              | 424507.78        | 661847.30       | N 32° 9' 59.22" W        | 103° 56' 37.94"           |
|          | 8220.00    | 13.33       | 308.33         | 8123.52     | 410.51       | 355.87     | -666.17    | 2.01              | 424520.31        | 661831.51       | N 32° 9' 59.35" W        | 103° 56' 38.13"           |
|          | 8314.00    | 14.75       | 307.80         | 8214.70     | 426.03       | 369.92     | -684.13    | 1.52              | 424534.37        | 661813.56       | N 32° 9' 59.49" W        | 103° 56' 38.33"           |
|          | 8409.00    | 15.88       | 306.05         | 8306.33     | 442.71       | 384.98     | -704.18    | 1.27              | 424549.42        | 661793.51       | N 32° 9' 59.64" W        | 103° 56' 38.57"           |
|          | 8488.00    | 15.52       | 302.58         | 8380.47     | 455.85       | 396.72     | -721.37    | 1.30              | 424561.15        | 661776.32       | N 32° 9' 59.75" W        | 103° 56' 38.77"           |
|          | 8552.00    | 15.01       | 296.93         | 8540.62     | 480.85       | 418.41     | -759.25    | 0.95              | 424582.85        | 661738.44       | N 32° 9' 59.97" W        | 103° 56' 39.21"           |
|          | 8747.00    | 17.91       | 285.94         | 8631.72     | 494.59       | 430.37     | -783.36    | 3.07              | 424594.81        | 661714.33       | N 32° 10' 0.09" W        | 103° 56' 39.49"           |
|          | 8841.00    | 24.15       | 303.48         | 8719.43     | 513.92       | 447.32     | -812.43    | 7.22              | 424611.75        | 661685.26       | N 32° 10' 0.26" W        | 103° 56' 39.82"           |
|          | 8936.00    | 28.15       | 309.39         | 8804.32     | 542.11       | 472.74     | -846.56    | 5.96              | 424637.17        | 661651.14       | N 32° 10' 0.51" W        | 103° 56' 40.22"           |
|          | 8999.00    | 35.03       | 315.11         | 8857.69     | 566.87       | 495.31     | -871.20    | 10.50             | 424659.74        | 661626.50       | N 32° 10' 0.73" W        | 103° 56' 40.51"           |
|          | 9094.00    | 47.91       | 321.78         | 8928.76     | 617.19       | 542.54     | -912.45    | 14.32             | 424708.97        | 661585.26       | N 32° 10' 1.20" W        | 103° 56' 40.98"           |
|          | 9188.00    | 56.77       | 331.29         | 8988.21     | 682.48       | 604.64     | -953.05    | 12.35             | 424769.06        | 661544.66       | N 32° 10' 1.82" W        | 103° 56' 41.45"           |
|          | 9283.00    | 68.43       | 341.90         | 9031.44     | 761.54       | 681.22     | -985.81    | 14.12             | 424845.64        | 661511.90       | N 32° 10' 2.58" W        | 103° 56' 41.83"           |
|          | 9377.00    | 78.72       | 346.51         | 9059.57     | 849.67       | 767.75     | -1008.49   | 14.69             | 424932.16        | 661489.22       | N 32° 10' 3.43" W        | 103° 56' 42.09"           |
|          | 9472.00    | 89.11       | 357.52         | 9069.84     | 943.84       | 861.30     | -1019.88   | 14.43             | 425025.70        | 661477.84       | N 32° 10' 4.36" W        | 103° 56' 42.22"           |
|          | 9563.00    | 89.59       | 5.18           | 9070.68     | 1034.24      | 952.20     | -1017.73   | 8.43              | 425116.60        | 661479.98       | N 32° 10' 5.26" W        | 103° 56' 42.19"           |
|          | 9618.00    | 89.07       | 4.51           | 9071.32     | 1088.46      | 1007.00    | -1013.09   | 1.54              | 425171.39        | 661484.62       | N 32° 10' 5.80" W        | 103° 56' 42.13"           |
|          | 9713.00    | 88.59       | 2.08           | 9073.63     | 1162.48      | 1101.81    | -1007.63   | 2.61              | 425266.20        | 661490.08       | N 32° 10' 6.74" W        | 103° 56' 42.07"           |
|          | 9807.00    | 88.52       | 1.83           | 9075.63     | 1275.80      | 1195.73    | -1004.42   | 0.28              | 425360.11        | 661493.29       | N 32° 10' 7.67" W        | 103° 56' 42.03"           |
|          | 9902.00    | 88.31       | 1.94           | 9078.26     | 1370.11      | 1290.64    | -1001.30   | 0.25              | 425455.01        | 661496.41       | N 32° 10' 8.61" W        | 103° 56' 41.99"           |
|          | 9996.00    | 88.49       | 2.09           | 9080.88     | 1463.41      | 1384.55    | -998.00    | 0.28              | 425548.91        | 661499.71       | N 32° 10' 9.54" W        | 103° 56' 41.94"           |
|          | 10091.00   | 88.49       | 2.56           | 9083.39     | 1557.64      | 1478.43    | -994.14    | 0.49              | 425643.79        | 661503.57       | N 32° 10' 10.48" W       | 103° 56' 41.89"           |
|          | 10185.00   | 89.00       | 1.43           | 9085.45     | 1650.95      | 1573.35    | -990.87    | 1.32              | 425737.70        | 661506.84       | N 32° 10' 11.41" W       | 103° 56' 41.85"           |
|          | 10280.00   | 88.93       | 1.96           | 9087.16     | 1745.32      | 1668.30    | -988.06    | 0.56              | 425832.64        | 661509.65       | N 32° 10' 12.34" W       | 103° 56' 41.82"           |
|          | 10374.00   | 90.21       | 1.24           | 9087.87     | 1838.73      | 1762.25    | -985.44    | 1.56              | 425926.59        | 661512.27       | N 32° 10' 13.27" W       | 103° 56' 41.78"           |
|          | 10469.00   | 89.17       | 3.54           | 9088.38     | 1932.97      | 1857.16    | -981.48    | 2.66              | 426021.49        | 661516.23       | N 32° 10' 14.21" W       | 103° 56' 41.73"           |
|          | 10564.00   | 89.07       | 2.74           | 9089.84     | 2027.05      | 1952.01    | -976.27    | 0.85              | 426116.33        | 661521.44       | N 32° 10' 15.15" W       | 103° 56' 41.67"           |
|          | 10659.00   | 88.80       | 0.81           | 9091.61     | 2121.40      | 2046.94    | -973.33    | 2.05              | 426211.26        | 661524.38       | N 32° 10' 16.09" W       | 103° 56' 41.63"           |
|          | 10753.00   | 88.69       | 359.89         | 9093.66     | 2214.99      | 2140.92    | -972.76    | 0.99              | 426305.22        | 661524.95       | N 32° 10' 17.02" W       | 103° 56' 41.62"           |
|          | 10848.00   | 90.55       | 0.12           | 9094.29     | 2309.65      | 2235.91    | -972.75    | 1.97              | 426400.21        | 661524.96       | N 32° 10' 17.96" W       | 103° 56' 41.61"           |
|          | 10942.00   | 90.10       | 0.94           | 9093.76     | 2403.24      | 2329.90    | -971.88    | 1.00              | 426494.20        | 661525.83       | N 32° 10' 18.89" W       | 103° 56' 41.60"           |
|          | 11037.00   | 90.96       | 0.24           | 9092.00     | 2592.38      | 2518.88    | -969.92    | 0.58              | 426584.16        | 661527.79       | N 32° 10' 20.77" W       | 103° 56' 41.57"           |
|          | 11132.00   | 90.52       | 1.35           | 9090.78     | 2686.92      | 2614.86    | -968.61    | 1.26              | 426679.13        | 661529.10       | N 32° 10' 21.71" W       | 103° 56' 41.55"           |
|          | 11227.00   | 90.69       | 358.75         | 9089.77     | 2781.57      | 2709.85    | -968.52    | 2.74              | 426774.11        | 661529.19       | N 32° 10' 22.65" W       | 103° 56' 41.54"           |
|          | 11322.00   | 91.10       | 0.89           | 9088.31     | 2875.24      | 2803.83    | -968.82    | 2.32              | 426868.09        | 661528.89       | N 32° 10' 23.58" W       | 103° 56' 41.54"           |
|          | 11416.00   | 90.52       | 0.80           | 9086.98     | 2969.77      | 2898.81    | -967.42    | 0.62              | 427063.06        | 661530.29       | N 32° 10' 24.52" W       | 103° 56' 41.52"           |
|          | 11511.00   | 90.69       | 359.42         | 9085.96     | 3064.41      | 2993.80    | -967.24    | 1.46              | 427158.05        | 661530.47       | N 32° 10' 25.46" W       | 103° 56' 41.52"           |
|          | 11606.00   | 90.83       | 357.75         | 9084.70     | 3159.23      | 3088.76    | -968.58    | 1.76              | 427253.00        | 661528.13       | N 32° 10' 26.40" W       | 103° 56' 41.54"           |
|          | 11701.00   | 91.00       | 359.90         | 9083.18     | 3254.02      | 3183.73    | -971.53    | 2.27              | 427347.95        | 661526.18       | N 32° 10' 27.34" W       | 103° 56' 41.56"           |
|          | 11796.00   | 90.62       | 1.25           | 9081.85     | 3347.59      | 3277.71    | -970.59    | 1.49              | 427441.93        | 661527.12       | N 32° 10' 28.27" W       | 103° 56' 41.55"           |
|          | 11891.00   | 90.24       | 357.69         | 9081.14     | 3442.31      | 3372.69    | -971.46    | 3.77              | 427536.90        | 661526.25       | N 32° 10' 29.21" W       | 103° 56' 41.55"           |
|          | 11986.00   | 90.79       | 359.93         | 9080.29     | 3538.11      | 3466.68    | -973.42    | 2.45              | 427630.86        | 661524.29       | N 32° 10' 30.14" W       | 103° 56' 41.57"           |
|          | 12079.00   | 90.27       | 358.84         | 9079.42     | 3630.85      | 3561.65    | -974.44    | 1.27              | 427725.84        | 661523.27       | N 32° 10' 31.08" W       | 103° 56' 41.58"           |
|          | 12174.00   | 90.38       | 359.31         | 9078.88     | 3724.63      | 3655.63    | -975.95    | 0.51              | 427819.82        | 661521.76       | N 32° 10' 32.01" W       | 103° 56' 41.59"           |
|          | 12268.00   | 90.48       | 359.70         | 9078.18     | 3818.36      | 3749.62    | -976.77    | 0.43              | 427913.81        | 661520.94       | N 32° 10' 32.94" W       | 103° 56' 41.60"           |
|          | 12362.00   | 90.55       | 359.67         | 9077.32     | 3913.07      | 3844.62    | -977.29    | 0.08              | 428008.80        | 661520.42       | N 32° 10' 33.88" W       | 103° 56' 41.60"           |
|          | 12457.00   | 90.79       | 359.11         | 9076.22     | 4006.81      | 3938.61    | -978.29    | 0.85              | 428102.78        | 661519.42       | N 32° 10' 34.81" W       | 103° 56' 41.61"           |
|          | 12551.00   | 90.52       | 359.56         | 9075.14     | 4101.55      | 4033.59    | -979.39    | 0.55              | 428197.76        | 661518.32       | N 32° 10' 35.75" W       | 103° 56' 41.62"           |
|          | 12646.00   | 90.41       | 0.06           | 9074.38     | 4195.24      | 4127.59    | -979.70    | 0.54              | 428291.75        | 661518.01       | N 32° 10' 36.68" W       | 103° 56' 41.62"           |
|          | 12740.00   | 90.34       | 359.69         | 9073.75     | 4289.92      | 4222.59    | -979.91    | 0.40              | 428386.74        | 661517.80       | N 32° 10' 37.62" W       | 103° 56' 41.61"           |
|          | 12835.00   | 90.14       | 0.45           | 9073.36     | 4383.58      | 4316.59    | -979.80    | 0.84              | 428480.73        | 661517.92       | N 32° 10' 38.55" W       | 103° 56' 41.61"           |
|          | 12929.00   | 89.55       | 359.78         | 9073.87     | 4477.88      | 4406.58    | -979.41    | 0.47              | 428574.71        | 661518.30       | N 32° 10' 40.43" W       | 103° 56' 41.60"           |
|          | 13024.00   | 90.14       | 0.03           | 9074.14     | 4572.88      | 4506.58    | -979.58    | 0.65              | 428668.70        | 661518.13       | N 32° 10' 41.40" W       | 103° 56' 41.59"           |
|          | 13119.00   | 90.21       | 1.01           | 9073.85     | 4670.54      | 4604.58    | -979.78    | 1.03              | 428762.69        | 661519.00       | N 32° 10' 42.34" W       | 103° 56' 41.58"           |
|          | 13217.00   | 89.55       | 358.94         | 9074.05     | 4765.13      | 4699.58    | -978.71    | 2.31              | 428856.69        | 661519.00       | N 32° 10' 43.27" W       | 103° 56' 41.58"           |
|          | 13312.00   | 89.76       | 1.09           | 9074.61     | 4858.80      | 4793.57    | -978.76    | 2.30              | 428950.68        | 661518.96       | N 32° 10' 44.20" W       | 103° 56' 41.57"           |
|          | 13406.00   | 89.42       | 359.88         | 9075.29     | 4952.45      | 4887.56    | -978.73    | 1.32              | 429044.66        | 661518.98       | N 32° 10' 45.14" W       | 103° 56' 41.56"           |
|          | 13501.00   | 89.35       | 0.01           | 9076.00     | 5047.04      | 4982.56    | -977.93    | 0.16              | 429138.65        | 661519.69       | N 32° 10' 46.07" W       | 103° 56' 41.56"           |
|          | 13596.00   | 89.76       | 0.75           | 9077.04     | 5140.72      | 5076.55    | -978.02    | 0.89              | 429232.62        | 661520.32       | N 32° 10' 47.01" W       | 103° 56' 41.54"           |
|          | 13691.00   | 91.24       | 1.00           | 9076.22     | 5235.32      | 5171.54    | -977.39    | 1.60              | 429326.60        | 661521.76       | N 32° 10' 47.94" W       | 103° 56' 41.52"           |
|          | 13786.00   | 90.14       | 0.31           | 9075.07     | 5328.85      | 5265.53    | -975.95    | 1.37              | 429420.58        | 661522.84       | N 32° 10' 48.88" W       | 103° 56' 41.51"           |
|          | 13881.00   | 90.21       | 0.93           | 9074.79     | 5423.41      | 5360.51    | -974.87    | 0.66              | 429514.56        | 661523.86       | N 32° 10' 49.81" W       | 103° 56' 41.49"           |
|          | 13976.00   | 89.79       | 1.20           | 9074.79     | 5518.99      | 5454.51    | -973.85    | 0.53              | 429608.52        | 661525.63       | N 32° 10' 50.75" W       | 103° 56' 41.47"           |
|          | 14071.00   | 89.11       | 359.83         | 9075.70     | 5611.49      | 5549.49    | -972.08    | 1.61              | 429702.50        | 661526.48       | N 32° 10' 51.69" W       | 103° 56' 41.45"           |
|          | 14166.00   | 89.04       | 359.58         | 9077.22     | 5708.07      | 5644.48    | -971.23    | 0.28              | 429800.52        | 661526.48       | N 32° 10' 52.62" W       | 103° 56' 41.45"           |
|          | 14261.00   | 89.45       | 359.96         | 9078.45     | 5799.77      | 5738.48    | -971.71    | 0.59              | 429902.50        | 661526.00       | N 32° 10' 53.55" W       | 103° 56' 41.48"           |
|          | 14356.00   | 89.76       | 0.91           | 9079.10     | 5893.46      | 5832.48    | -972.09    | 1.06              | 429998.48        | 661526.00       | N 32° 10' 54.48" W       | 103° 56' 41.48"           |
|          | 14451.00   | 90.48       | 1.76           | 9078.90     | 5987.06      | 5926.45    | -971.38    | 1.17              | 430090.47        | 661526.33       | N 32° 10' 55.42" W       | 103° 56' 41.41"           |

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