

Phase 1 Heritage Impact Assessment of Disco Chicks Farm 2 (Farm 713), Sundays River Municipality.

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Executive Summary

- A Phase 1 Heritage Impact Assessment was carried out on Farm 713 (Disco Chicks Farm 2), Sundays River Municipality where the applicant (Venter Wildlife Trust) intends to establish a poultry broiler housing facility and citrus orchards with associated infrastructure.
- The proposed development area is underlain by Kirkwood Formation bedrock, which is capped by a >1m - thick cover of Quaternary colluvium and residual soils of low palaeontological sensitivity.
- There are no indications of aboveground prehistoric structures, rock art, graves, graveyards or historical structures older than 60 years within the survey area.
- The survey has yielded number of stone tools distributed as contextually derived surface scatters at the site.
- The site is considered to be of low archaeological sensitivity.

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Introduction

At the request of Public Process Consultants, a Phase 1 Heritage Impact Assessment was carried out on Farm 713 (Disco Chicks Farm 2), Sundays River Municipality where the applicant (Venter Wildlife Trust) intends to establish a poultry broiler housing facility and citrus orchards with associated infrastructure (**Fig. 1**). The survey is required as a prerequisite for new development in terms of the National Environmental Management Act and is also called for in terms of the National Heritage Resources Act 25 of 1999. The site visit and subsequent assessment took place in May 2013. The task involved identification of possible heritage sites or occurrences in the proposed zone, an assessment of their significance, possible impact by the proposed development and recommendations for mitigation where relevant.

Site information

Locality data

1:50 000 scale topographic map 3325 BC Coerney

1:250 000 scale geological map 3324 Port Elizabeth

Site Coordinates (**Fig 2**): A) 33°25'29.65"S 25°38'22.71"E

B) 33°25'27.27"S 25°38'59.16"E

C) 33°26'5.15"S 25°39'2.29"E

D) 33°26'10.06"S 25°38'26.98"E

The site is located on Disco Chicks Farm 2 (Farm 713) in the Sundays River Valley Municipality, which is situated directly off the gravel road between the R335 (Zuurberg Road) and the town of Kirkwood (**Fig. 2**). The farm is made up of undulating plains and low mountains and foothills. The site is located against a 20° - 30° slope and is covered with dense thicket dominated by trees, shrubs and succulents (**Fig. 3 & 4**).

The poultry facility will consist of 12 broiler houses while the citrus orchards will entail the clearing of approximately 90 hectares of vegetation and the establishment of agricultural activities, as well as associated infrastructure for agriculture production.

Construction Phase activities are anticipated to be as follows:

- Clearing of vegetation for the establishment of broiler houses and associated infrastructure (30 ha).
- Levelling of the site for the foundations for 12 broiler houses measuring 120 m x 15 m each.
- Clearing of vegetation from portions of the site proposed for agriculture (90 ha).
- Levelling and landscaping the site to provide runoff control.
- Establishment of internal roads to provide access to orchards.
- Establishment of a storage dam for irrigation water.
- Establishment of citrus trees.
- Establishment of a farm managers house.

Geology

The geology of the area has been described by McLachlan & McMillan 1976; Toerien and Hill 1989; Le Roux 2000 and Shone 2006). The study area forms part of the Algoa Basin which is represented by a succession of sediments of Late Jurassic to Cretaceous age (**Fig. 5**). These sediments are represented by a diverse sediment fill, comprising the Enon, Kirkwood and Sundays River Formations of the Uitenhage Group. The Disco Chicks site is entirely underlain non-marine sediments of the Kirkwood Formation (*J-Kk*) which in turn overlies the Enon Formation (*Je*) to the north. To the south, the Sundays River Frm. (*Ks*) overlies and grade laterally into the Kirkwood Frm. The

Kirkwood Formation (*J-Kk*) represents the largest surviving area of mid-Mesozoic sedimentation in South Africa and is estimated to be Late Jurassic - Early Cretaceous in age. It is highly fossiliferous and consists of porous and permeable, coarse- to medium-grained channel sandstones, silty overbank mudrocks and palaeosols, characterized by variegated hues of green, grey and red, which were accumulated as a result of fluvial sedimentation. Superficial sediments (Quaternary) at the site are made up of red-brown soils containing localized gravel clasts and calcrete profiles (**Fig. 6**).

Methodology

The site was surveyed by vehicle and on foot, using a Garmin Etrex Vista GPS hand model (set to the WGS 84 map datum) and a digital camera for recording purposes. Relative surface distribution density of uncapped lithic material was calculated by conducting two 500m arbitrary transects across the study area. Relevant archaeological and paleontological information were assimilated for the report and integrated with data acquired during the on-site inspection.

Terms of reference for assessment

- Identify and map possible heritage resources;
- Determine and assess the potential impacts of the proposed development on potential heritage resources;
- Recommend mitigation measures to minimize potential impacts associated with the proposed development.

Background

Palaeontology

There is a long history of vertebrate fossil collection from the Kirkwood Formation, beginning in 1845 with the discovery of a number of fragmentary bones including a partial skull with teeth now identified as the stegosaur *Paranthodon africanus* (Galton and Coombs, 1981). Several key fossil sites are found to the west of the present study area along the junction of the Bezuidenhouts, Wit and Sundays River near Dunbrodie and Blue Cliff Station, as well as near Kirkwood (Kirkwood Cliffs) (**Fig. 7**) Fossils

include a range of plant remains (fern, cycad and conifer taxa) and vertebrate bones, including those of large dinosaurs (McLachlan and Anderson 1976; Rich *et al.* 1983; Ross *et al.* 1999; de Klerk *et al.* 1998; de Klerk *et al.* 2000). Invertebrate fossils associated with the Kirkwood Fm. plant bed localities seem to be commonly associated with either fresh-water or estuarine conditions. Calcrete-rich palaeosols and palaeobotanical evidence within the Kirkwood alluvium indicate that semi-arid and warm climates prevailed at the time of its formation.

Archaeology

Earliest human habitation in the Sundays River Valley is indicated by the presence by bifacial stone tools, which are assigned to Early Stone Age. ESA bifaces that possibly dates back to between 1.5 million and 300 000 years ago, and younger, Middle Stone Ages flake-blade industries generally occur as contextually derived individual finds on the landscape or occasionally as capped assemblages within Quaternary alluvial deposits. Stone Age sites have been recorded along the Sundays River Valley near Addo and Kirkwood. The incidence of surface scatters usually declines further away from localized areas such as riverine or spring sites. At Amanzi Springs, west of Grassridge near Addo, ESA *in situ* artefacts were found along with well-preserved plant and faunal remains within spring sediments (Deacon 1970).

Cave and rock shelters in the adjacent mountains to the north and east frequently contain archaeological remains and rock art associated with San hunter-gatherers who inhabited the area during the last ten thousand years (Deacon 1976). The Melkhoutboom Cave, located in the Suurberg Mountains, is a Later Stone Age site that dates back 15000 years. Nearby rock paintings in the Suurberge confirm that this area was inhabited by San hunter-gatherers. Khoi pastoralists occupied the region some 2000 years ago and introduced domesticated animals and pottery to the region (Deacon 1984). Khoi pastoralist sites are often found close to the banks of large streams and rivers. Khoi groups who lived in the area during historical times include the Iqua, Damasqua and Gonaqua clans. The Suurberg area is also known for numerous skirmishes that took place between the Xhosa inhabitants, European settlers, British military and Khoi pastoralists during the 18th and 19th centuries and some historical remains related to these events may still be preserved.

Results of Survey

There are no bedrock (Kirkwood sandstones and mudrocks) exposed at the site. Test pits show that it is capped by a substantial Quaternary (superficial) overburden (**Fig. 8**). The foot survey was at times hampered by dense vegetation (**Fig. 9**), but several features, including artefacts were located in secondary context on the surface near open clearings and tracks (**Fig 10 & 11, Table 1**). The stone tools are mainly represented by large, irregular flakes, chunks and reduced pieces made from quartzite (**Fig. 12**). Investigation of exposed topsoils shows no evidence for the accumulation and preservation of intact fossil material within the Quaternary sediments covering the underlying sedimentary rocks.

Impact Statement and Recommendations

The proposed development area is underlain by Kirkwood Formation bedrock, which is capped by a >1m -thick cover of Quaternary colluvium and residual soils of low palaeontological sensitivity.

- As a result of the comparatively thick mantle of superficial sediments that blanket the affected area, potential palaeontological impact during the construction and operational phase of the development is considered to be improbable. There are no major palaeontological grounds to halt the proposed development.

There are no indications of aboveground prehistoric structures, or rock art within the survey area. There is no evidence of graves, graveyards or historical structures older than 60 years at the site. The survey has yielded number of stone tools distributed as contextually derived surface scatters at the site. The artefacts are not associated with any other archaeological material. Overall, the site is considered to be of low archaeological sensitivity.

- It is anticipated that potential archaeological impact during the construction as well as the operational phase of the development will affect material that are not significant enough to warrant surface collection as part of a Phase 2 procedure.

- However, although there are no major archaeological grounds to halt the proposed development it is noted that the archaeological assessment is based solely on surface visibility and evidence provided by existing soil cuttings.
- It is advised that any **in situ** archaeological material found during the course of excavation/ ground clearing activities should be reported to the relevant heritage resources authority (ECPHRA Contact details: Mr Sello Mokhanya, 74 Alexander Road, King Williams Town 5600; smokhanya@ecphra.org.zaso) and that possible intact finds may require further investigation and/or a rescue operation at the cost of the developer.

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Declaration

L. Rossouw does independent specialist consulting and is in no way connected with the proponents of the development, other than delivery of consulting services.

Figures & Tables

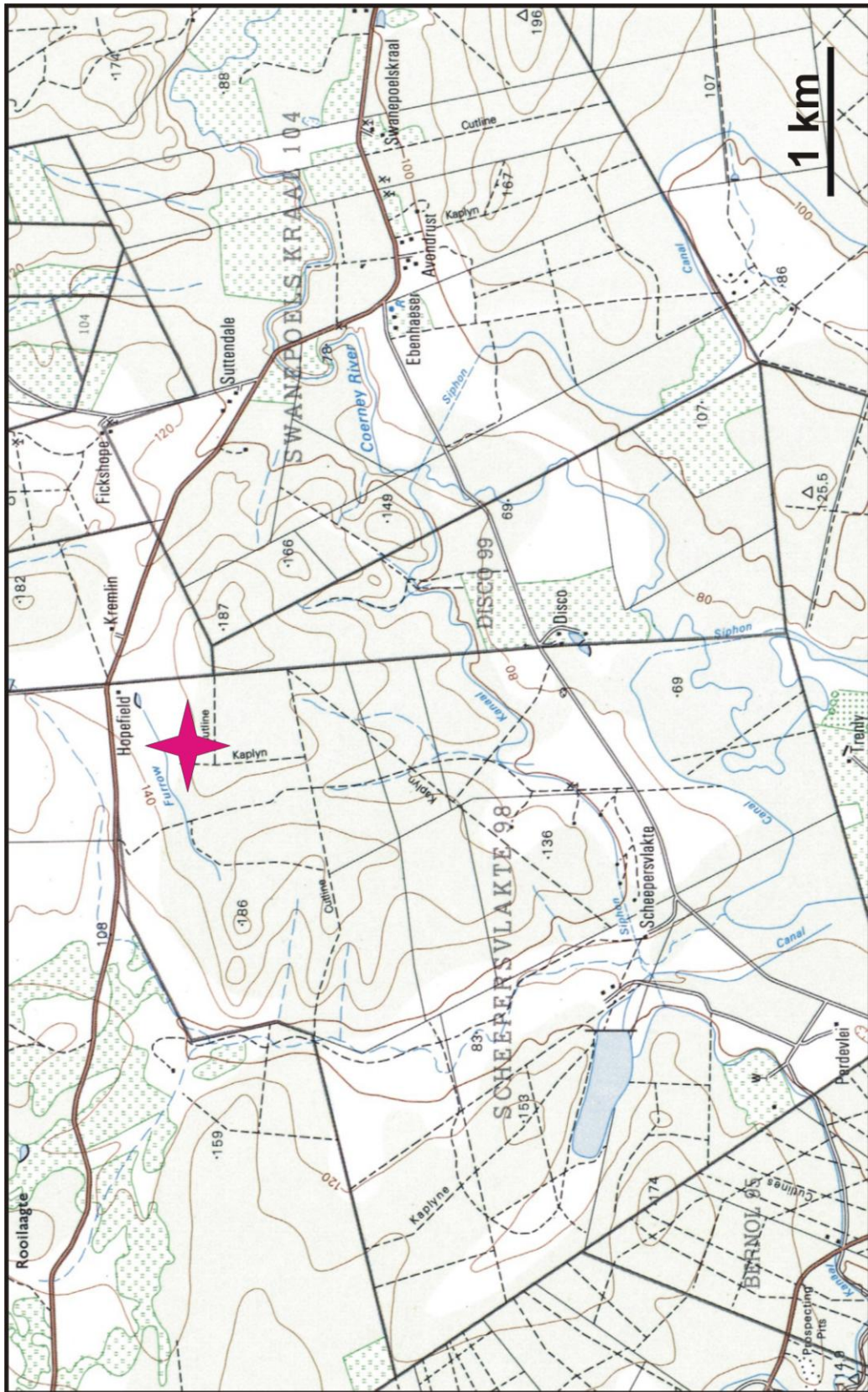


Figure 1. Portion of 1:50 000 topographical map of the locality (3325 BC Coerney).

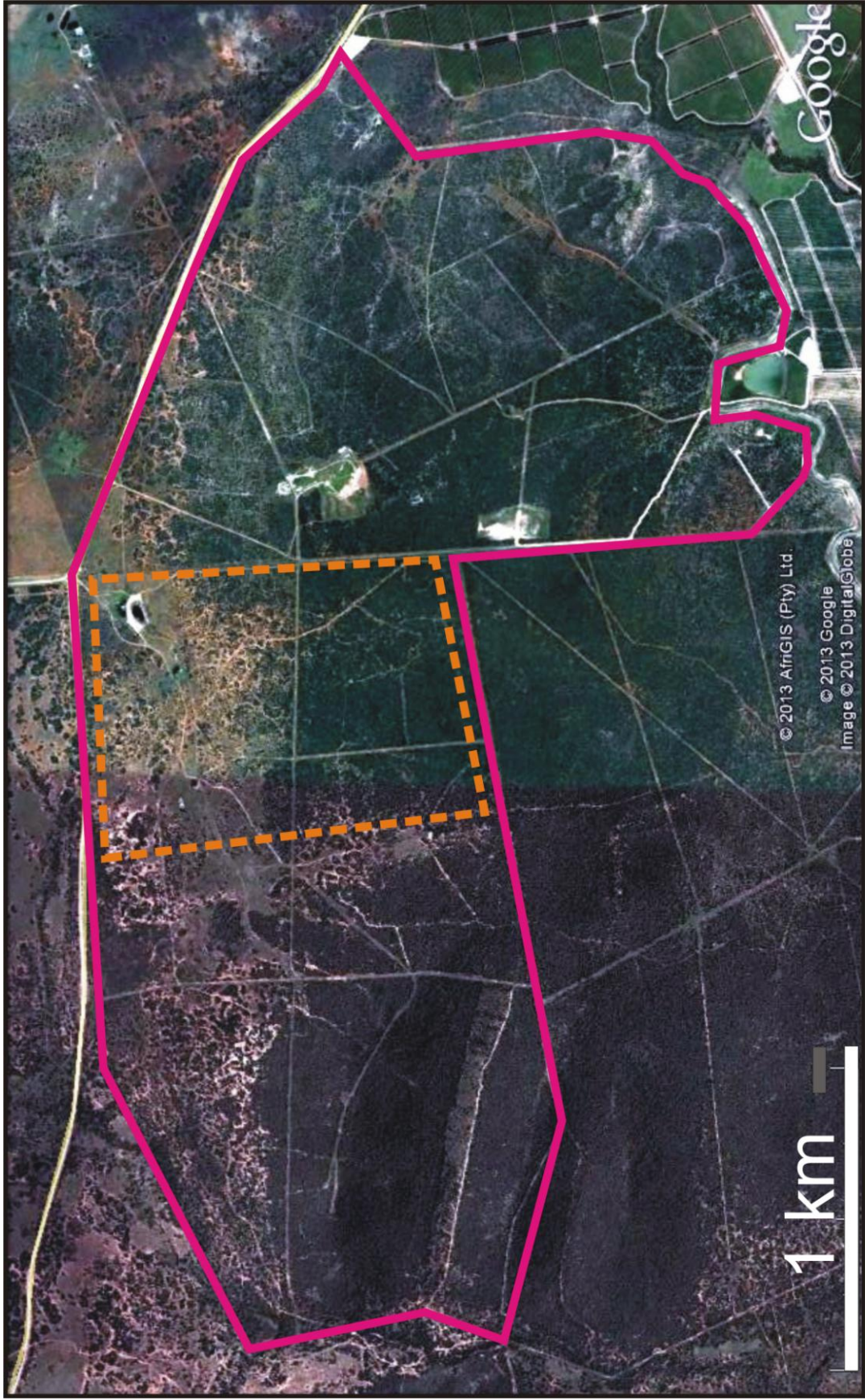


Figure 2. Aerial view of Farm 713. The affected area is indicated by the dotted line.

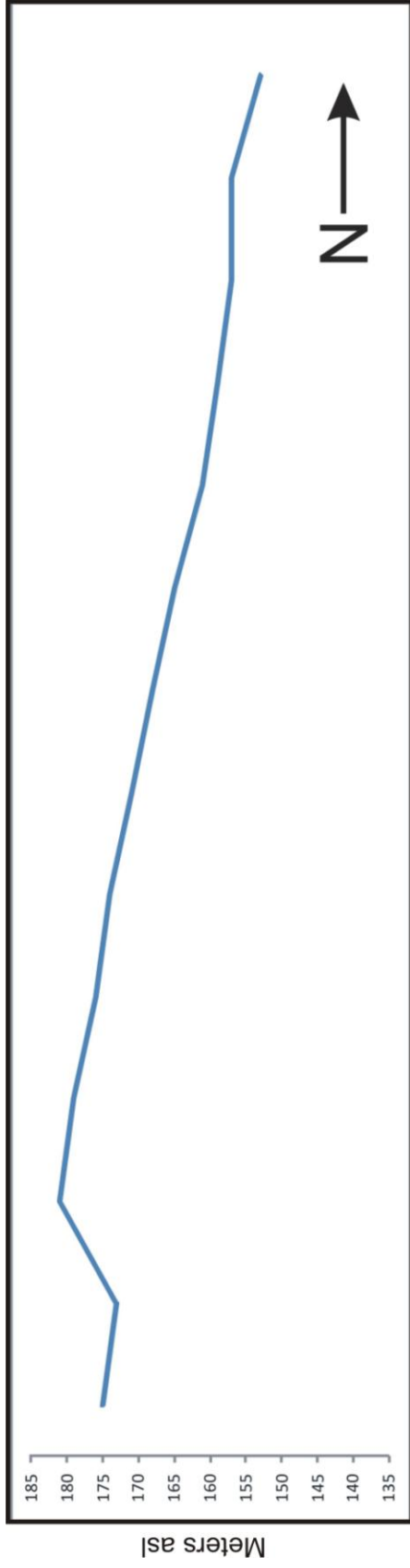


Figure 3. The site is located against a 20° - 30° hillslope (above) and covered with dense thicket dominated by trees, shrubs and succulents (below).



Figure 4. Panoramic view of the site, looking northeast

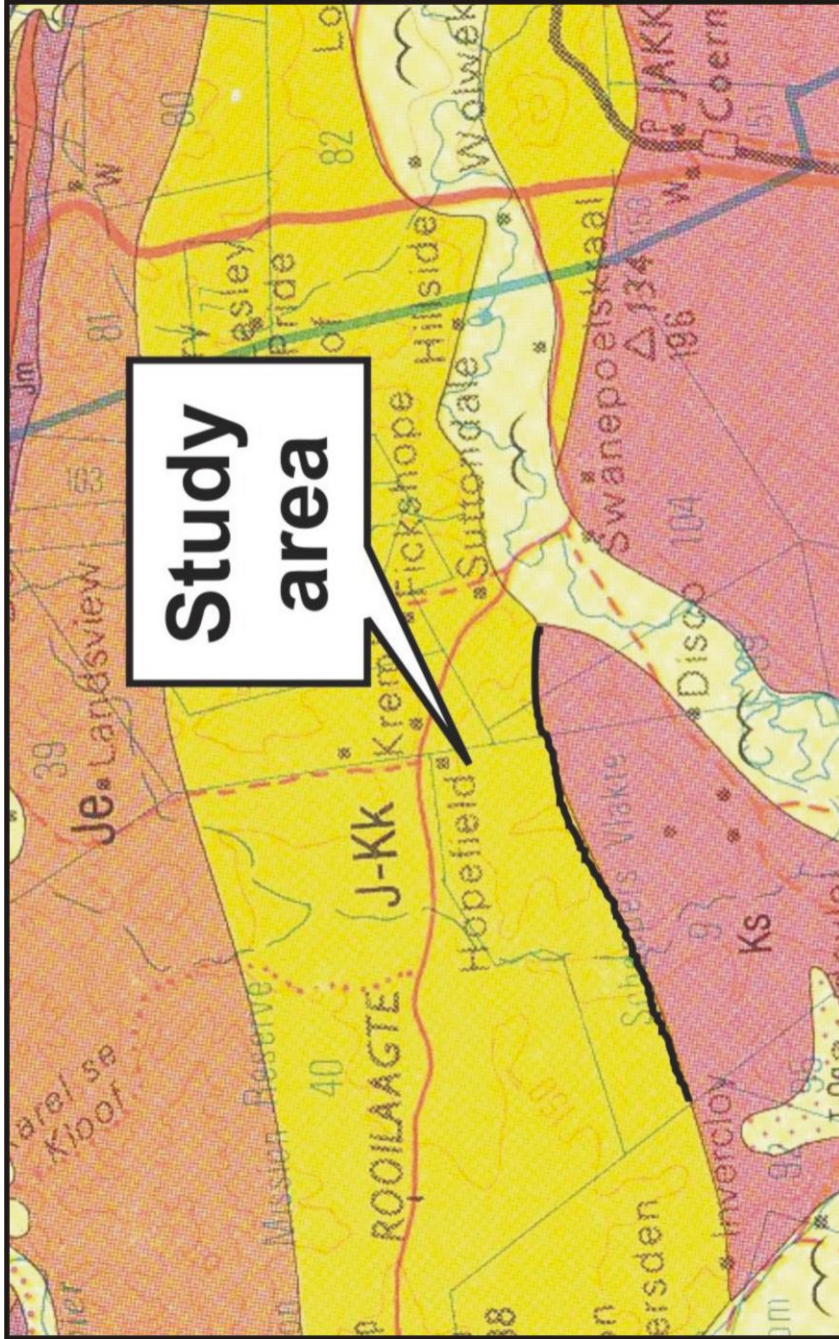


Figure 5. Portion of the 250 000 scale geological map 3324 Port Elizabeth illustrating the geology of the region. The Disco Chicks site is entirely underlain non-marine sediments of the Kirkwood Formation (J-Kk) which in turn overlies the Enon Formation (Je) to the north. To the south, the Sundays River Frm. (Ks) overlies and grade laterally into the Kirkwood Frm.

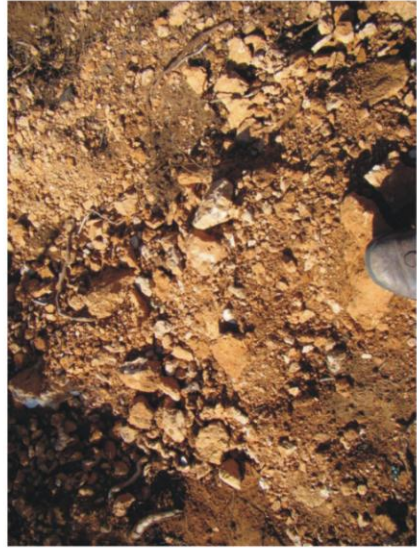
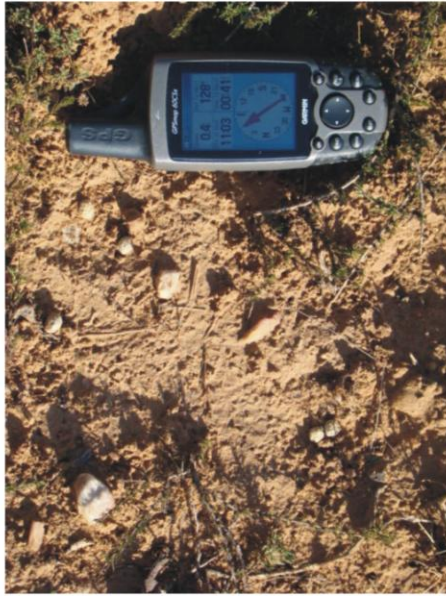
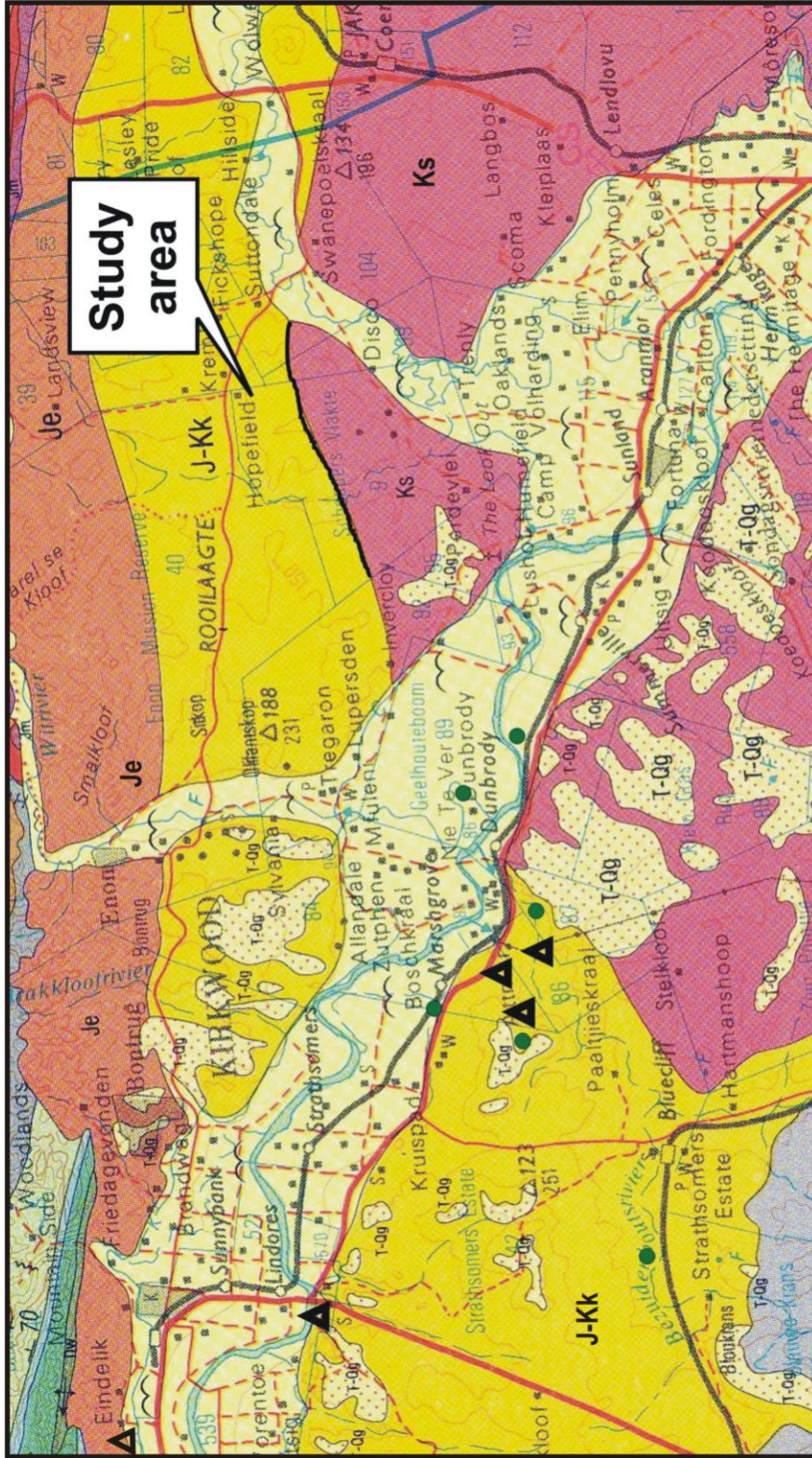


Figure 6. Superficial sediments (Quaternary) at the site are made up of red-brown soils containing localized gravel clasts and calcrete profiles.



▲ Fossil reptile site ● Fossil plant site

Figure 7. Portion of the 250 000 scale geological map with key palaeontological localities (3324 Port Elizabeth).



Figure 8. Test pits indicate that the site is capped by a >1m -thick mantle of Quaternary colluvium and residual soils of low palaeontological sensitivity.



Figure 9. The affected area is characterized by dense vegetation.



Figure 10. several features, including farm related (modern) structures such as workers' huts (above left) and dam walls (above right) are located near open clearings and tracks.



Figure 11. Surface scatters of individual stone tools occur in secondary context near open clearings.

Table 1. Features recorded during survey.

| | Feature | Coordinates | |
|----|---------------------------|--------------------|---------------|
| 1 | Homestead | 33°25'31.33"S | 25°38'55.73"E |
| 2 | Man-made dam | 33°25'33.15"S | 25°38'54.48"E |
| 3 | Dilapidated building | 33°25'37.53"S | 25°38'47.65"E |
| 4 | Man-made dam | 33°25'39.17"S | 25°38'33.78"E |
| 5 | Stone tool (surface find) | 33°25'44.60"S | 25°38'50.04"E |
| 6 | Stone tool (surface find) | 33°25'43.08"S | 25°38'53.47"E |
| 7 | Stone tool (surface find) | 33°25'43.70"S | 25°38'53.06"E |
| 8 | Stone tool (surface find) | 33°25'46.15"S | 25°38'42.44"E |
| 9 | Stone tool (surface find) | 33°25'37.51"S | 25°38'45.51"E |
| 10 | Stone tool (surface find) | 33°25'38.71"S | 25°38'42.27"E |
| 11 | Stone tool (surface find) | 33°25'42.10"S | 25°38'35.58"E |
| 12 | Stone tool (surface find) | 33°25'44.16"S | 25°38'37.87"E |
| 13 | Stone tool (surface find) | 33°25'42.98"S | 25°38'39.61"E |
| 14 | Stone tool (surface find) | 33°25'47.96"S | 25°38'40.14"E |
| 15 | Stone tool (surface find) | 33°25'53.10"S | 25°38'52.40"E |
| 16 | Stone tool (surface find) | 33°26'0.13"S | 25°38'54.22"E |
| 17 | Stone tool (surface find) | 33°25'35.31"S | 25°38'56.64"E |



Figure 12. Stone tools are mainly represented by large, irregular flakes, chunks and reduced pieces made from quartzite.

Appendix 1: Survey Log.

| Index | Elevation | Leg Length | Course | Position |
|-------|-----------|------------|-----------|-------------------------|
| 1 | 100 m | 22 m | 330° true | S33 26 40.4 E25 39 21.4 |
| 2 | 103 m | 7 m | 5° true | S33 26 39.8 E25 39 20.9 |
| 3 | 103 m | 118 m | 11° true | S33 26 39.6 E25 39 21.0 |
| 4 | 103 m | 118 m | 351° true | S33 26 35.8 E25 39 21.8 |
| 5 | 103 m | 7 m | 356° true | S33 26 32.1 E25 39 21.1 |
| 6 | 104 m | 11 m | 350° true | S33 26 31.8 E25 39 21.1 |
| 7 | 105 m | 6 m | 334° true | S33 26 31.4 E25 39 21.0 |
| 8 | 106 m | 16 m | 329° true | S33 26 31.3 E25 39 20.9 |
| 9 | 107 m | 7 m | 344° true | S33 26 30.8 E25 39 20.6 |
| 10 | 107 m | 20 m | 329° true | S33 26 30.6 E25 39 20.5 |
| 11 | 109 m | 27 m | 307° true | S33 26 30.0 E25 39 20.1 |
| 12 | 111 m | 65 m | 297° true | S33 26 29.5 E25 39 19.3 |
| 13 | 115 m | 8 m | 297° true | S33 26 28.6 E25 39 17.1 |
| 14 | 115 m | 31 m | 296° true | S33 26 28.4 E25 39 16.8 |
| 15 | 117 m | 31 m | 299° true | S33 26 28.0 E25 39 15.7 |
| 16 | 121 m | 8 m | 297° true | S33 26 27.5 E25 39 14.6 |
| 17 | 121 m | 23 m | 295° true | S33 26 27.4 E25 39 14.4 |
| 18 | 122 m | 15 m | 298° true | S33 26 27.1 E25 39 13.6 |
| 19 | 123 m | 23 m | 297° true | S33 26 26.8 E25 39 13.1 |
| 20 | 125 m | 35 m | 298° true | S33 26 26.5 E25 39 12.3 |
| 21 | 128 m | 31 m | 294° true | S33 26 26.0 E25 39 11.1 |
| 22 | 129 m | 15 m | 309° true | S33 26 25.6 E25 39 10.0 |
| 23 | 130 m | 17 m | 316° true | S33 26 25.2 E25 39 09.5 |
| 24 | 133 m | 32 m | 302° true | S33 26 24.9 E25 39 09.1 |
| 25 | 137 m | 28 m | 304° true | S33 26 24.3 E25 39 08.0 |
| 26 | 140 m | 21 m | 303° true | S33 26 23.8 E25 39 07.1 |
| 27 | 142 m | 7 m | 300° true | S33 26 23.4 E25 39 06.4 |
| 28 | 143 m | 13 m | 306° true | S33 26 23.3 E25 39 06.2 |
| 29 | 144 m | 19 m | 298° true | S33 26 23.1 E25 39 05.8 |
| 30 | 146 m | 19 m | 295° true | S33 26 22.8 E25 39 05.2 |
| 31 | 148 m | 18 m | 336° true | S33 26 22.5 E25 39 04.5 |
| 32 | 151 m | 21 m | 359° true | S33 26 22.0 E25 39 04.2 |
| 33 | 153 m | 30 m | 357° true | S33 26 21.4 E25 39 04.2 |
| 34 | 154 m | 65 m | 356° true | S33 26 20.4 E25 39 04.1 |
| 35 | 156 m | 40 m | 356° true | S33 26 18.3 E25 39 04.0 |
| 36 | 160 m | 8 m | 356° true | S33 26 17.0 E25 39 03.8 |
| 37 | 160 m | 25 m | 356° true | S33 26 16.7 E25 39 03.8 |
| 38 | 163 m | 17 m | 356° true | S33 26 15.9 E25 39 03.8 |
| 39 | 164 m | 52 m | 356° true | S33 26 15.4 E25 39 03.7 |
| 40 | 167 m | 133 m | 355° true | S33 26 13.7 E25 39 03.6 |
| 41 | 171 m | 73 m | 355° true | S33 26 09.4 E25 39 03.1 |
| 42 | 175 m | 10 m | 353° true | S33 26 07.1 E25 39 02.9 |
| 43 | 175 m | 68 m | 355° true | S33 26 06.8 E25 39 02.9 |
| 44 | 176 m | 2 m | 7° true | S33 26 04.6 E25 39 02.7 |
| 45 | 177 m | 1 m | 85° true | S33 26 04.5 E25 39 02.7 |
| 46 | 175 m | 0 m | 192° true | S33 26 04.5 E25 39 02.7 |
| 47 | 178 m | 1 m | 174° true | S33 26 04.5 E25 39 02.7 |
| 48 | 176 m | 1 m | 196° true | S33 26 04.6 E25 39 02.7 |
| 49 | 176 m | 2 m | 284° true | S33 26 04.6 E25 39 02.7 |
| 50 | 176 m | 1 m | 348° true | S33 26 04.6 E25 39 02.6 |
| 51 | 175 m | 26 m | 354° true | S33 26 04.6 E25 39 02.6 |
| 52 | 178 m | 80 m | 355° true | S33 26 03.7 E25 39 02.5 |
| 53 | 178 m | 162 m | 355° true | S33 26 01.2 E25 39 02.2 |
| 54 | 181 m | 130 m | 356° true | S33 25 55.9 E25 39 01.7 |

| | | | | |
|-----|-------|------|-----------|-------------------------|
| 55 | 181 m | 61 m | 354° true | S33 25 51.7 E25 39 01.3 |
| 56 | 179 m | 21 m | 337° true | S33 25 49.7 E25 39 01.1 |
| 57 | 178 m | 57 m | 349° true | S33 25 49.1 E25 39 00.8 |
| 58 | 176 m | 6 m | 357° true | S33 25 47.3 E25 39 00.4 |
| 59 | 176 m | 25 m | 353° true | S33 25 47.1 E25 39 00.4 |
| 60 | 174 m | 24 m | 359° true | S33 25 46.3 E25 39 00.3 |
| 61 | 172 m | 62 m | 356° true | S33 25 45.5 E25 39 00.2 |
| 62 | 168 m | 18 m | 356° true | S33 25 43.5 E25 39 00.1 |
| 63 | 166 m | 45 m | 357° true | S33 25 43.0 E25 39 00.0 |
| 64 | 163 m | 74 m | 355° true | S33 25 41.5 E25 38 59.9 |
| 65 | 160 m | 37 m | 355° true | S33 25 39.1 E25 38 59.7 |
| 66 | 157 m | 17 m | 0° true | S33 25 37.9 E25 38 59.5 |
| 67 | 157 m | 21 m | 344° true | S33 25 37.4 E25 38 59.6 |
| 68 | 156 m | 11 m | 319° true | S33 25 36.7 E25 38 59.3 |
| 69 | 157 m | 64 m | 324° true | S33 25 36.5 E25 38 59.1 |
| 70 | 154 m | 74 m | 339° true | S33 25 34.8 E25 38 57.6 |
| 71 | 153 m | 21 m | 331° true | S33 25 32.6 E25 38 56.6 |
| 72 | 154 m | 1 m | 64° true | S33 25 32.0 E25 38 56.2 |
| 73 | 153 m | 3 m | 75° true | S33 25 32.0 E25 38 56.2 |
| 74 | 153 m | 1 m | 220° true | S33 25 31.9 E25 38 56.3 |
| 75 | 153 m | 3 m | 46° true | S33 25 32.0 E25 38 56.3 |
| 76 | 153 m | 3 m | 155° true | S33 25 31.9 E25 38 56.4 |
| 77 | 153 m | 1 m | 64° true | S33 25 32.0 E25 38 56.4 |
| 78 | 153 m | 5 m | 234° true | S33 25 32.0 E25 38 56.5 |
| 79 | 154 m | 2 m | 241° true | S33 25 32.1 E25 38 56.3 |
| 80 | 154 m | 3 m | 219° true | S33 25 32.1 E25 38 56.2 |
| 81 | 153 m | 2 m | 178° true | S33 25 32.2 E25 38 56.2 |
| 82 | 153 m | 2 m | 30° true | S33 25 32.2 E25 38 56.2 |
| 83 | 155 m | 1 m | 339° true | S33 25 32.2 E25 38 56.2 |
| 84 | 154 m | 0 m | 44° true | S33 25 32.2 E25 38 56.2 |
| 85 | 154 m | 2 m | 301° true | S33 25 32.2 E25 38 56.2 |
| 86 | 155 m | 1 m | 206° true | S33 25 32.1 E25 38 56.2 |
| 87 | 154 m | 3 m | 9° true | S33 25 32.2 E25 38 56.1 |
| 88 | 154 m | 1 m | 72° true | S33 25 32.1 E25 38 56.2 |
| 89 | 151 m | 0 m | 242° true | S33 25 32.1 E25 38 56.2 |
| 90 | 155 m | 3 m | 86° true | S33 25 32.1 E25 38 56.2 |
| 91 | 153 m | 3 m | 174° true | S33 25 32.0 E25 38 56.3 |
| 92 | 154 m | 14 m | 230° true | S33 25 32.1 E25 38 56.3 |
| 93 | 155 m | 3 m | 142° true | S33 25 32.4 E25 38 55.9 |
| 94 | 155 m | 23 m | 182° true | S33 25 32.5 E25 38 56.0 |
| 95 | 154 m | 12 m | 192° true | S33 25 33.2 E25 38 56.0 |
| 96 | 154 m | 2 m | 306° true | S33 25 33.6 E25 38 55.9 |
| 97 | 153 m | 22 m | 175° true | S33 25 33.6 E25 38 55.8 |
| 98 | 154 m | 1 m | 175° true | S33 25 34.3 E25 38 55.9 |
| 99 | 155 m | 19 m | 157° true | S33 25 34.3 E25 38 55.9 |
| 100 | 155 m | 1 m | 212° true | S33 25 34.9 E25 38 56.1 |
| 101 | 155 m | 7 m | 5° true | S33 25 34.9 E25 38 56.1 |
| 102 | 155 m | 8 m | 351° true | S33 25 34.7 E25 38 56.1 |
| 103 | 154 m | 3 m | 333° true | S33 25 34.4 E25 38 56.1 |
| 104 | 155 m | 10 m | 359° true | S33 25 34.3 E25 38 56.0 |
| 105 | 155 m | 2 m | 347° true | S33 25 34.0 E25 38 56.0 |
| 106 | 153 m | 13 m | 340° true | S33 25 33.9 E25 38 56.0 |
| 107 | 154 m | 7 m | 12° true | S33 25 33.5 E25 38 55.8 |
| 108 | 153 m | 21 m | 2° true | S33 25 33.3 E25 38 55.9 |
| 109 | 155 m | 8 m | 44° true | S33 25 32.6 E25 38 55.9 |
| 110 | 142 m | 0 m | 198° true | S33 25 32.4 E25 38 56.1 |
| 111 | 156 m | 0 m | 241° true | S33 25 32.4 E25 38 56.1 |
| 112 | 161 m | 0 m | 172° true | S33 25 32.4 E25 38 56.1 |

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|-----|-------|------|-----------|-------------------------|
| 113 | 154 m | 0 m | 130° true | S33 25 32.4 E25 38 56.1 |
| 114 | 154 m | 2 m | 44° true | S33 25 32.4 E25 38 56.1 |
| 115 | 153 m | 11 m | 354° true | S33 25 32.4 E25 38 56.2 |
| 116 | 154 m | 1 m | 123° true | S33 25 32.0 E25 38 56.1 |
| 117 | 153 m | 15 m | 285° true | S33 25 32.1 E25 38 56.2 |
| 118 | 153 m | 45 m | 264° true | S33 25 31.9 E25 38 55.6 |
| 119 | 153 m | 54 m | 235° true | S33 25 32.1 E25 38 53.9 |
| 120 | 153 m | 55 m | 232° true | S33 25 33.1 E25 38 52.2 |
| 121 | 153 m | 11 m | 206° true | S33 25 34.2 E25 38 50.5 |
| 122 | 153 m | 0 m | 287° true | S33 25 34.5 E25 38 50.3 |
| 123 | 152 m | 20 m | 210° true | S33 25 34.5 E25 38 50.3 |
| 124 | 152 m | 54 m | 234° true | S33 25 35.1 E25 38 49.9 |
| 125 | 154 m | 24 m | 248° true | S33 25 36.1 E25 38 48.2 |
| 126 | 153 m | 1 m | 329° true | S33 25 36.4 E25 38 47.4 |
| 127 | 153 m | 27 m | 237° true | S33 25 36.3 E25 38 47.3 |
| 128 | 153 m | 50 m | 240° true | S33 25 36.8 E25 38 46.5 |
| 129 | 154 m | 58 m | 253° true | S33 25 37.6 E25 38 44.8 |
| 130 | 154 m | 69 m | 277° true | S33 25 38.2 E25 38 42.6 |
| 131 | 154 m | 79 m | 280° true | S33 25 37.9 E25 38 40.0 |
| 132 | 152 m | 10 m | 243° true | S33 25 37.4 E25 38 37.0 |
| 133 | 152 m | 1 m | 7° true | S33 25 37.6 E25 38 36.6 |
| 134 | 153 m | 5 m | 91° true | S33 25 37.5 E25 38 36.6 |
| 135 | 153 m | 3 m | 328° true | S33 25 37.5 E25 38 36.9 |
| 136 | 153 m | 3 m | 213° true | S33 25 37.5 E25 38 36.8 |
| 137 | 152 m | 22 m | 327° true | S33 25 37.5 E25 38 36.7 |
| 138 | 151 m | 27 m | 289° true | S33 25 36.9 E25 38 36.3 |
| 139 | 151 m | 12 m | 310° true | S33 25 36.6 E25 38 35.3 |
| 140 | 150 m | 2 m | 331° true | S33 25 36.4 E25 38 34.9 |
| 141 | 151 m | 8 m | 340° true | S33 25 36.3 E25 38 34.9 |
| 142 | 149 m | 4 m | 352° true | S33 25 36.1 E25 38 34.8 |
| 143 | 149 m | 2 m | 349° true | S33 25 36.0 E25 38 34.8 |
| 144 | 149 m | 8 m | 13° true | S33 25 35.9 E25 38 34.7 |
| 145 | 147 m | 1 m | 181° true | S33 25 35.7 E25 38 34.8 |
| 146 | 148 m | 3 m | 295° true | S33 25 35.7 E25 38 34.8 |
| 147 | 148 m | 2 m | 215° true | S33 25 35.7 E25 38 34.7 |
| 148 | 147 m | 3 m | 156° true | S33 25 35.7 E25 38 34.6 |
| 149 | 149 m | 7 m | 146° true | S33 25 35.8 E25 38 34.7 |
| 150 | 148 m | 10 m | 157° true | S33 25 36.0 E25 38 34.9 |
| 151 | 149 m | 8 m | 163° true | S33 25 36.3 E25 38 35.0 |
| 152 | 149 m | 5 m | 142° true | S33 25 36.6 E25 38 35.1 |
| 153 | 150 m | 2 m | 120° true | S33 25 36.7 E25 38 35.2 |
| 154 | 150 m | 27 m | 106° true | S33 25 36.7 E25 38 35.3 |
| 155 | 150 m | 14 m | 118° true | S33 25 37.0 E25 38 36.3 |
| 156 | 151 m | 5 m | 156° true | S33 25 37.2 E25 38 36.8 |
| 157 | 151 m | 8 m | 189° true | S33 25 37.3 E25 38 36.9 |
| 158 | 152 m | 6 m | 191° true | S33 25 37.6 E25 38 36.8 |
| 159 | 152 m | 12 m | 167° true | S33 25 37.8 E25 38 36.8 |
| 160 | 152 m | 19 m | 181° true | S33 25 38.2 E25 38 36.9 |
| 161 | 153 m | 11 m | 125° true | S33 25 38.8 E25 38 36.8 |
| 162 | 154 m | 4 m | 233° true | S33 25 39.0 E25 38 37.2 |
| 163 | 154 m | 1 m | 341° true | S33 25 39.0 E25 38 37.1 |
| 164 | 154 m | 3 m | 352° true | S33 25 39.0 E25 38 37.0 |
| 165 | 153 m | 14 m | 5° true | S33 25 38.9 E25 38 37.0 |
| 166 | 152 m | 11 m | 341° true | S33 25 38.4 E25 38 37.1 |
| 167 | 153 m | 2 m | 99° true | S33 25 38.1 E25 38 36.9 |
| 168 | 152 m | 2 m | 62° true | S33 25 38.1 E25 38 37.0 |
| 169 | 152 m | 1 m | 43° true | S33 25 38.1 E25 38 37.1 |
| 170 | 152 m | 5 m | 343° true | S33 25 38.0 E25 38 37.1 |

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| 171 | 152 m | 6 m | 353° true | S33 25 37.9 E25 38 37.1 |
| 172 | 151 m | 8 m | 334° true | S33 25 37.7 E25 38 37.1 |
| 173 | 151 m | 3 m | 229° true | S33 25 37.5 E25 38 36.9 |
| 174 | 151 m | 2 m | 225° true | S33 25 37.5 E25 38 36.8 |
| 175 | 151 m | 2 m | 274° true | S33 25 37.6 E25 38 36.8 |
| 176 | 152 m | 42 m | 255° true | S33 25 37.6 E25 38 36.7 |
| 177 | 153 m | 20 m | 219° true | S33 25 37.9 E25 38 35.1 |
| 178 | 154 m | 40 m | 189° true | S33 25 38.4 E25 38 34.6 |
| 179 | 156 m | 1 m | 22° true | S33 25 39.7 E25 38 34.4 |
| 180 | 155 m | 17 m | 14° true | S33 25 39.7 E25 38 34.4 |
| 181 | 155 m | 23 m | 151° true | S33 25 39.1 E25 38 34.6 |
| 182 | 157 m | 39 m | 144° true | S33 25 39.8 E25 38 35.0 |
| 183 | 158 m | 35 m | 149° true | S33 25 40.8 E25 38 35.9 |
| 184 | 160 m | 21 m | 148° true | S33 25 41.8 E25 38 36.6 |
| 185 | 162 m | 12 m | 158° true | S33 25 42.3 E25 38 37.0 |
| 186 | 163 m | 8 m | 248° true | S33 25 42.7 E25 38 37.2 |
| 187 | 163 m | 15 m | 158° true | S33 25 42.8 E25 38 36.9 |
| 188 | 165 m | 49 m | 176° true | S33 25 43.3 E25 38 37.1 |
| 189 | 168 m | 95 m | 180° true | S33 25 44.8 E25 38 37.3 |
| 190 | 172 m | 71 m | 176° true | S33 25 47.9 E25 38 37.2 |
| 191 | 172 m | 91 m | 174° true | S33 25 50.2 E25 38 37.4 |
| 192 | 170 m | 11 m | 176° true | S33 25 53.1 E25 38 37.8 |
| 193 | 170 m | 3 m | 17° true | S33 25 53.5 E25 38 37.8 |
| 194 | 170 m | 34 m | 355° true | S33 25 53.4 E25 38 37.9 |
| 195 | 170 m | 52 m | 351° true | S33 25 52.3 E25 38 37.7 |
| 196 | 170 m | 47 m | 351° true | S33 25 50.7 E25 38 37.4 |
| 197 | 172 m | 0 m | 205° true | S33 25 49.2 E25 38 37.2 |
| 198 | 171 m | 6 m | 99° true | S33 25 49.2 E25 38 37.2 |
| 199 | 171 m | 39 m | 87° true | S33 25 49.2 E25 38 37.4 |
| 200 | 171 m | 117 m | 90° true | S33 25 49.1 E25 38 38.9 |
| 201 | 171 m | 125 m | 90° true | S33 25 49.2 E25 38 43.5 |
| 202 | 172 m | 73 m | 91° true | S33 25 49.2 E25 38 48.3 |
| 203 | 172 m | 45 m | 89° true | S33 25 49.2 E25 38 51.2 |
| 204 | 173 m | 4 m | 78° true | S33 25 49.2 E25 38 52.9 |
| 205 | 173 m | 27 m | 90° true | S33 25 49.2 E25 38 53.1 |
| 206 | 172 m | 2 m | 260° true | S33 25 49.2 E25 38 54.1 |
| 207 | 174 m | 21 m | 84° true | S33 25 49.2 E25 38 54.1 |
| 208 | 174 m | 68 m | 91° true | S33 25 49.1 E25 38 54.9 |
| 209 | 178 m | 14 m | 90° true | S33 25 49.1 E25 38 57.5 |
| 210 | 179 m | 56 m | 91° true | S33 25 49.1 E25 38 58.1 |
| 211 | 181 m | 14 m | 97° true | S33 25 49.2 E25 39 00.2 |
| 212 | 182 m | 4 m | 267° true | S33 25 49.2 E25 39 00.8 |
| 213 | 182 m | 1 m | 354° true | S33 25 49.2 E25 39 00.6 |
| 214 | 181 m | 4 m | 98° true | S33 25 49.2 E25 39 00.6 |
| 215 | 183 m | 6 m | 95° true | S33 25 49.2 E25 39 00.8 |
| 216 | 182 m | 8 m | 234° true | S33 25 49.2 E25 39 01.0 |
| 217 | 182 m | 3 m | 324° true | S33 25 49.4 E25 39 00.7 |
| 218 | 182 m | 74 m | 323° true | S33 25 49.3 E25 39 00.7 |
| 219 | 178 m | 30 m | 322° true | S33 25 47.4 E25 38 59.0 |
| 220 | 175 m | 11 m | 322° true | S33 25 46.6 E25 38 58.3 |
| 221 | 174 m | 26 m | 320° true | S33 25 46.4 E25 38 58.0 |
| 222 | 172 m | 6 m | 305° true | S33 25 45.7 E25 38 57.4 |
| 223 | 172 m | 6 m | 18° true | S33 25 45.6 E25 38 57.2 |
| 224 | 172 m | 4 m | 207° true | S33 25 45.4 E25 38 57.3 |
| 225 | 171 m | 14 m | 133° true | S33 25 45.6 E25 38 57.2 |
| 226 | 172 m | 58 m | 144° true | S33 25 45.9 E25 38 57.6 |
| 227 | 177 m | 39 m | 143° true | S33 25 47.4 E25 38 58.9 |
| 228 | 179 m | 30 m | 144° true | S33 25 48.4 E25 38 59.8 |

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| 229 | 181 m | 19 m | 95° true | S33 25 49.2 E25 39 00.5 |
| 230 | 182 m | 1 m | 23° true | S33 25 49.2 E25 39 01.2 |
| 231 | 181 m | 14 m | 204° true | S33 25 49.2 E25 39 01.2 |
| 232 | 182 m | 6 m | 303° true | S33 25 49.6 E25 39 01.0 |
| 233 | 181 m | 4 m | 289° true | S33 25 49.5 E25 39 00.8 |
| 234 | 180 m | 3 m | 314° true | S33 25 49.5 E25 39 00.7 |
| 235 | 181 m | 41 m | 350° true | S33 25 49.4 E25 39 00.6 |
| 236 | 180 m | 48 m | 357° true | S33 25 48.1 E25 39 00.3 |
| 237 | 176 m | 67 m | 357° true | S33 25 46.6 E25 39 00.2 |
| 238 | 173 m | 53 m | 356° true | S33 25 44.4 E25 39 00.1 |
| 239 | 170 m | 52 m | 356° true | S33 25 42.7 E25 38 59.9 |
| 240 | 166 m | 72 m | 356° true | S33 25 41.0 E25 38 59.8 |
| 241 | 162 m | 41 m | 356° true | S33 25 38.7 E25 38 59.6 |
| 242 | 160 m | 24 m | 341° true | S33 25 37.4 E25 38 59.5 |
| 243 | 160 m | 84 m | 326° true | S33 25 36.7 E25 38 59.2 |
| 244 | 157 m | 11 m | 339° true | S33 25 34.4 E25 38 57.4 |
| 245 | 156 m | 9 m | 116° true | S33 25 34.1 E25 38 57.2 |
| 246 | 155 m | 10 m | 191° true | S33 25 34.2 E25 38 57.5 |
| 247 | 156 m | 39 m | 153° true | S33 25 34.5 E25 38 57.5 |
| 248 | 157 m | 30 m | 143° true | S33 25 35.6 E25 38 58.2 |
| 249 | 158 m | 17 m | 139° true | S33 25 36.4 E25 38 58.9 |
| 250 | 157 m | 17 m | 160° true | S33 25 36.8 E25 38 59.3 |
| 251 | 158 m | 6 m | 179° true | S33 25 37.4 E25 38 59.5 |
| 252 | 158 m | 20 m | 179° true | S33 25 37.6 E25 38 59.5 |
| 253 | 160 m | 57 m | 176° true | S33 25 38.2 E25 38 59.6 |
| 254 | 163 m | 62 m | 174° true | S33 25 40.0 E25 38 59.7 |
| 255 | 166 m | 13 m | 176° true | S33 25 42.0 E25 39 00.0 |
| 256 | 167 m | 45 m | 176° true | S33 25 42.5 E25 39 00.0 |
| 257 | 170 m | 66 m | 176° true | S33 25 43.9 E25 39 00.1 |
| 258 | 174 m | 18 m | 178° true | S33 25 46.1 E25 39 00.3 |
| 259 | 175 m | 44 m | 176° true | S33 25 46.6 E25 39 00.3 |
| 260 | 177 m | 22 m | 179° true | S33 25 48.1 E25 39 00.5 |
| 261 | 178 m | 14 m | 279° true | S33 25 48.8 E25 39 00.5 |
| 262 | 178 m | 62 m | 325° true | S33 25 48.7 E25 38 59.9 |
| 263 | 175 m | 54 m | 323° true | S33 25 47.1 E25 38 58.5 |
| 264 | 171 m | 13 m | 324° true | S33 25 45.7 E25 38 57.3 |
| 265 | 168 m | 1 m | 135° true | S33 25 45.3 E25 38 57.0 |
| 266 | 170 m | 7 m | 146° true | S33 25 45.3 E25 38 57.0 |
| 267 | 170 m | 8 m | 31° true | S33 25 45.5 E25 38 57.2 |
| 268 | 170 m | 1 m | 358° true | S33 25 45.3 E25 38 57.3 |
| 269 | 168 m | 0 m | 129° true | S33 25 45.3 E25 38 57.3 |
| 270 | 172 m | 0 m | 107° true | S33 25 45.3 E25 38 57.3 |
| 271 | 170 m | 3 m | 199° true | S33 25 45.3 E25 38 57.4 |
| 272 | 170 m | 5 m | 249° true | S33 25 45.4 E25 38 57.3 |
| 273 | 170 m | 2 m | 243° true | S33 25 45.4 E25 38 57.1 |
| 274 | 169 m | 0 m | 114° true | S33 25 45.5 E25 38 57.1 |
| 275 | 169 m | 9 m | 249° true | S33 25 45.5 E25 38 57.1 |
| 276 | 169 m | 9 m | 241° true | S33 25 45.6 E25 38 56.8 |
| 277 | 170 m | 7 m | 240° true | S33 25 45.7 E25 38 56.4 |
| 278 | 170 m | 5 m | 234° true | S33 25 45.8 E25 38 56.2 |
| 279 | 169 m | 2 m | 246° true | S33 25 45.9 E25 38 56.1 |
| 280 | 169 m | 4 m | 237° true | S33 25 45.9 E25 38 56.0 |
| 281 | 169 m | 11 m | 286° true | S33 25 46.0 E25 38 55.9 |
| 282 | 169 m | 1 m | 344° true | S33 25 45.9 E25 38 55.4 |
| 283 | 169 m | 4 m | 326° true | S33 25 45.9 E25 38 55.4 |
| 284 | 168 m | 1 m | 289° true | S33 25 45.8 E25 38 55.3 |
| 285 | 167 m | 8 m | 292° true | S33 25 45.8 E25 38 55.3 |
| 286 | 167 m | 3 m | 304° true | S33 25 45.7 E25 38 55.0 |

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| 287 | 167 m | 14 m | 336° true | S33 25 45.6 E25 38 54.9 |
| 288 | 167 m | 7 m | 42° true | S33 25 45.2 E25 38 54.7 |
| 289 | 165 m | 0 m | 246° true | S33 25 45.1 E25 38 54.9 |
| 290 | 170 m | 1 m | 96° true | S33 25 45.1 E25 38 54.9 |
| 291 | 167 m | 13 m | 124° true | S33 25 45.1 E25 38 54.9 |
| 292 | 167 m | 1 m | 37° true | S33 25 45.3 E25 38 55.4 |
| 293 | 168 m | 1 m | 346° true | S33 25 45.3 E25 38 55.4 |
| 294 | 167 m | 4 m | 321° true | S33 25 45.2 E25 38 55.4 |
| 295 | 167 m | 1 m | 269° true | S33 25 45.1 E25 38 55.3 |
| 296 | 166 m | 5 m | 250° true | S33 25 45.1 E25 38 55.2 |
| 297 | 165 m | 11 m | 214° true | S33 25 45.2 E25 38 55.0 |
| 298 | 167 m | 6 m | 250° true | S33 25 45.5 E25 38 54.8 |
| 299 | 166 m | 18 m | 234° true | S33 25 45.6 E25 38 54.6 |
| 300 | 167 m | 2 m | 198° true | S33 25 45.9 E25 38 54.0 |
| 301 | 168 m | 2 m | 183° true | S33 25 46.0 E25 38 54.0 |
| 302 | 166 m | 9 m | 155° true | S33 25 46.0 E25 38 54.0 |
| 303 | 165 m | 0 m | 236° true | S33 25 46.3 E25 38 54.1 |
| 304 | 169 m | 1 m | 210° true | S33 25 46.3 E25 38 54.1 |
| 305 | 165 m | 0 m | 23° true | S33 25 46.4 E25 38 54.1 |
| 306 | 169 m | 0 m | 78° true | S33 25 46.4 E25 38 54.1 |
| 307 | 165 m | 1 m | 51° true | S33 25 46.4 E25 38 54.1 |
| 308 | 168 m | 4 m | 127° true | S33 25 46.3 E25 38 54.1 |
| 309 | 167 m | 7 m | 162° true | S33 25 46.4 E25 38 54.3 |
| 310 | 167 m | 5 m | 186° true | S33 25 46.6 E25 38 54.3 |
| 311 | 169 m | 4 m | 27° true | S33 25 46.8 E25 38 54.3 |
| 312 | 169 m | 3 m | 15° true | S33 25 46.7 E25 38 54.4 |
| 313 | 169 m | 6 m | 47° true | S33 25 46.6 E25 38 54.4 |
| 314 | 168 m | 6 m | 56° true | S33 25 46.4 E25 38 54.6 |
| 315 | 169 m | 7 m | 51° true | S33 25 46.3 E25 38 54.8 |
| 316 | 168 m | 6 m | 68° true | S33 25 46.2 E25 38 55.0 |
| 317 | 169 m | 1 m | 57° true | S33 25 46.1 E25 38 55.2 |
| 318 | 168 m | 18 m | 75° true | S33 25 46.1 E25 38 55.3 |
| 319 | 169 m | 13 m | 62° true | S33 25 45.9 E25 38 55.9 |
| 320 | 169 m | 15 m | 62° true | S33 25 45.7 E25 38 56.4 |
| 321 | 169 m | 6 m | 85° true | S33 25 45.5 E25 38 56.9 |
| 322 | 170 m | 2 m | 24° true | S33 25 45.5 E25 38 57.1 |
| 323 | 171 m | 12 m | 51° true | S33 25 45.4 E25 38 57.2 |
| 324 | 170 m | 8 m | 49° true | S33 25 45.2 E25 38 57.5 |
| 325 | 166 m | 0 m | 85° true | S33 25 45.0 E25 38 57.7 |
| 326 | 168 m | 0 m | 351° true | S33 25 45.0 E25 38 57.7 |
| 327 | 172 m | 0 m | 12° true | S33 25 45.0 E25 38 57.7 |
| 328 | 170 m | 7 m | 54° true | S33 25 45.0 E25 38 57.7 |
| 329 | 170 m | 8 m | 77° true | S33 25 44.9 E25 38 58.0 |
| 330 | 169 m | 9 m | 65° true | S33 25 44.8 E25 38 58.3 |
| 331 | 171 m | 0 m | 21° true | S33 25 44.7 E25 38 58.6 |
| 332 | 165 m | 0 m | 145° true | S33 25 44.7 E25 38 58.6 |
| 333 | 169 m | 1 m | 69° true | S33 25 44.7 E25 38 58.6 |
| 334 | 175 m | 1 m | 55° true | S33 25 44.7 E25 38 58.6 |
| 335 | 171 m | 0 m | 318° true | S33 25 44.7 E25 38 58.6 |
| 336 | 170 m | 0 m | 326° true | S33 25 44.7 E25 38 58.6 |
| 337 | 165 m | 1 m | 245° true | S33 25 44.7 E25 38 58.6 |
| 338 | 170 m | 2 m | 258° true | S33 25 44.7 E25 38 58.6 |
| 339 | 174 m | 1 m | 228° true | S33 25 44.7 E25 38 58.5 |
| 340 | 171 m | 0 m | 177° true | S33 25 44.7 E25 38 58.5 |
| 341 | 174 m | 1 m | 77° true | S33 25 44.7 E25 38 58.5 |
| 342 | 171 m | 2 m | 70° true | S33 25 44.7 E25 38 58.5 |
| 343 | 170 m | 13 m | 63° true | S33 25 44.7 E25 38 58.6 |
| 344 | 170 m | 3 m | 164° true | S33 25 44.5 E25 38 59.1 |

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| 345 | 171 m | 2 m | 280° true | S33 25 44.6 E25 38 59.1 |
| 346 | 170 m | 17 m | 245° true | S33 25 44.6 E25 38 59.0 |
| 347 | 170 m | 3 m | 264° true | S33 25 44.8 E25 38 58.4 |
| 348 | 170 m | 16 m | 346° true | S33 25 44.8 E25 38 58.3 |
| 349 | 169 m | 5 m | 358° true | S33 25 44.3 E25 38 58.1 |
| 350 | 169 m | 7 m | 3° true | S33 25 44.1 E25 38 58.1 |
| 351 | 168 m | 1 m | 282° true | S33 25 43.9 E25 38 58.1 |
| 352 | 168 m | 10 m | 195° true | S33 25 43.9 E25 38 58.1 |
| 353 | 168 m | 5 m | 176° true | S33 25 44.2 E25 38 58.0 |
| 354 | 168 m | 9 m | 230° true | S33 25 44.4 E25 38 58.0 |
| 355 | 169 m | 4 m | 255° true | S33 25 44.6 E25 38 57.7 |
| 356 | 168 m | 8 m | 154° true | S33 25 44.6 E25 38 57.6 |
| 357 | 169 m | 5 m | 337° true | S33 25 44.9 E25 38 57.7 |
| 358 | 168 m | 5 m | 60° true | S33 25 44.7 E25 38 57.6 |
| 359 | 168 m | 10 m | 38° true | S33 25 44.6 E25 38 57.8 |
| 360 | 168 m | 3 m | 32° true | S33 25 44.4 E25 38 58.0 |
| 361 | 168 m | 13 m | 165° true | S33 25 44.3 E25 38 58.1 |
| 362 | 169 m | 3 m | 220° true | S33 25 44.7 E25 38 58.2 |
| 363 | 169 m | 16 m | 233° true | S33 25 44.8 E25 38 58.1 |
| 364 | 169 m | 9 m | 229° true | S33 25 45.1 E25 38 57.6 |
| 365 | 166 m | 0 m | 211° true | S33 25 45.3 E25 38 57.4 |
| 366 | 173 m | 0 m | 301° true | S33 25 45.3 E25 38 57.4 |
| 367 | 169 m | 6 m | 242° true | S33 25 45.3 E25 38 57.4 |
| 368 | 168 m | 1 m | 0° true | S33 25 45.4 E25 38 57.2 |
| 369 | 169 m | 8 m | 324° true | S33 25 45.4 E25 38 57.2 |
| 370 | 168 m | 56 m | 318° true | S33 25 45.1 E25 38 57.0 |
| 371 | 165 m | 71 m | 320° true | S33 25 43.8 E25 38 55.5 |
| 372 | 162 m | 34 m | 318° true | S33 25 42.1 E25 38 53.8 |
| 373 | 160 m | 3 m | 111° true | S33 25 41.2 E25 38 52.9 |
| 374 | 156 m | 0 m | 52° true | S33 25 41.3 E25 38 53.0 |
| 375 | 161 m | 0 m | 59° true | S33 25 41.3 E25 38 53.0 |
| 376 | 161 m | 1 m | 90° true | S33 25 41.3 E25 38 53.0 |
| 377 | 160 m | 7 m | 216° true | S33 25 41.3 E25 38 53.0 |
| 378 | 160 m | 4 m | 222° true | S33 25 41.4 E25 38 52.9 |
| 379 | 159 m | 6 m | 255° true | S33 25 41.5 E25 38 52.8 |
| 380 | 160 m | 3 m | 290° true | S33 25 41.6 E25 38 52.5 |
| 381 | 160 m | 1 m | 133° true | S33 25 41.6 E25 38 52.4 |
| 382 | 164 m | 0 m | 296° true | S33 25 41.6 E25 38 52.5 |
| 383 | 160 m | 0 m | 343° true | S33 25 41.6 E25 38 52.5 |
| 384 | 157 m | 0 m | 24° true | S33 25 41.6 E25 38 52.5 |
| 385 | 157 m | 0 m | 349° true | S33 25 41.6 E25 38 52.5 |
| 386 | 164 m | 0 m | 43° true | S33 25 41.5 E25 38 52.5 |
| 387 | 160 m | 0 m | 287° true | S33 25 41.5 E25 38 52.5 |
| 388 | 157 m | 1 m | 220° true | S33 25 41.5 E25 38 52.5 |
| 389 | 162 m | 0 m | 227° true | S33 25 41.6 E25 38 52.4 |
| 390 | 159 m | 0 m | 227° true | S33 25 41.6 E25 38 52.4 |
| 391 | 159 m | 9 m | 324° true | S33 25 41.6 E25 38 52.4 |
| 392 | 159 m | 14 m | 265° true | S33 25 41.4 E25 38 52.2 |
| 393 | 159 m | 8 m | 247° true | S33 25 41.4 E25 38 51.7 |
| 394 | 158 m | 1 m | 111° true | S33 25 41.5 E25 38 51.4 |
| 395 | 158 m | 8 m | 56° true | S33 25 41.5 E25 38 51.4 |
| 396 | 160 m | 15 m | 100° true | S33 25 41.3 E25 38 51.7 |
| 397 | 159 m | 6 m | 99° true | S33 25 41.4 E25 38 52.3 |
| 398 | 159 m | 12 m | 78° true | S33 25 41.5 E25 38 52.5 |
| 399 | 160 m | 4 m | 35° true | S33 25 41.4 E25 38 52.9 |
| 400 | 159 m | 1 m | 8° true | S33 25 41.3 E25 38 53.0 |
| 401 | 159 m | 2 m | 136° true | S33 25 41.2 E25 38 53.1 |
| 402 | 159 m | 0 m | 93° true | S33 25 41.3 E25 38 53.1 |

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| 403 | 159 m | 7 m | 155° true | S33 25 41.3 E25 38 53.1 |
| 404 | 160 m | 25 m | 142° true | S33 25 41.5 E25 38 53.2 |
| 405 | 160 m | 69 m | 140° true | S33 25 42.1 E25 38 53.8 |
| 406 | 163 m | 4 m | 108° true | S33 25 43.8 E25 38 55.5 |
| 407 | 164 m | 3 m | 227° true | S33 25 43.9 E25 38 55.7 |
| 408 | 163 m | 3 m | 47° true | S33 25 43.9 E25 38 55.6 |
| 409 | 163 m | 11 m | 143° true | S33 25 43.9 E25 38 55.7 |
| 410 | 164 m | 34 m | 137° true | S33 25 44.1 E25 38 55.9 |
| 411 | 167 m | 30 m | 142° true | S33 25 45.0 E25 38 56.8 |
| 412 | 170 m | 23 m | 143° true | S33 25 45.7 E25 38 57.6 |
| 413 | 173 m | 42 m | 142° true | S33 25 46.3 E25 38 58.1 |
| 414 | 176 m | 8 m | 141° true | S33 25 47.4 E25 38 59.1 |
| 415 | 176 m | 30 m | 141° true | S33 25 47.6 E25 38 59.3 |
| 416 | 179 m | 22 m | 146° true | S33 25 48.4 E25 39 00.0 |
| 417 | 179 m | 15 m | 231° true | S33 25 48.9 E25 39 00.5 |
| 418 | 178 m | 90 m | 273° true | S33 25 49.2 E25 39 00.1 |
| 419 | 176 m | 10 m | 269° true | S33 25 49.1 E25 38 56.6 |
| 420 | 175 m | 20 m | 273° true | S33 25 49.1 E25 38 56.2 |
| 421 | 174 m | 106 m | 270° true | S33 25 49.1 E25 38 55.4 |
| 422 | 171 m | 13 m | 267° true | S33 25 49.1 E25 38 51.3 |
| 423 | 170 m | 28 m | 91° true | S33 25 49.1 E25 38 50.8 |
| 424 | 171 m | 53 m | 270° true | S33 25 49.1 E25 38 51.9 |
| 425 | 172 m | 23 m | 269° true | S33 25 49.1 E25 38 49.9 |
| 426 | 169 m | 8 m | 110° true | S33 25 49.1 E25 38 49.0 |
| 427 | 170 m | 42 m | 269° true | S33 25 49.2 E25 38 49.3 |
| 428 | 170 m | 13 m | 274° true | S33 25 49.2 E25 38 47.6 |
| 429 | 169 m | 19 m | 267° true | S33 25 49.2 E25 38 47.1 |
| 430 | 171 m | 72 m | 271° true | S33 25 49.2 E25 38 46.4 |
| 431 | 171 m | 123 m | 271° true | S33 25 49.2 E25 38 43.6 |
| 432 | 172 m | 40 m | 271° true | S33 25 49.1 E25 38 38.8 |
| 433 | 168 m | 2 m | 278° true | S33 25 49.1 E25 38 37.3 |
| 434 | 168 m | 25 m | 272° true | S33 25 49.1 E25 38 37.2 |
| 435 | 171 m | 90 m | 270° true | S33 25 49.1 E25 38 36.2 |
| 436 | 169 m | 39 m | 271° true | S33 25 49.1 E25 38 32.7 |
| 437 | 166 m | 143 m | 270° true | S33 25 49.1 E25 38 31.2 |
| 438 | 163 m | 30 m | 270° true | S33 25 49.1 E25 38 25.7 |
| 439 | 160 m | 4 m | 273° true | S33 25 49.1 E25 38 24.5 |
| 440 | 160 m | 6 m | 304° true | S33 25 49.1 E25 38 24.3 |
| 441 | 158 m | 36 m | 22° true | S33 25 49.0 E25 38 24.1 |
| 442 | 160 m | 13 m | 49° true | S33 25 47.9 E25 38 24.7 |
| 443 | 160 m | 107 m | 51° true | S33 25 47.6 E25 38 25.0 |
| 444 | 162 m | 21 m | 54° true | S33 25 45.4 E25 38 28.3 |
| 445 | 162 m | 26 m | 54° true | S33 25 45.0 E25 38 28.9 |
| 446 | 161 m | 102 m | 57° true | S33 25 44.5 E25 38 29.7 |
| 447 | 160 m | 7 m | 42° true | S33 25 42.7 E25 38 33.0 |
| 448 | 160 m | 27 m | 24° true | S33 25 42.6 E25 38 33.2 |
| 449 | 159 m | 26 m | 3° true | S33 25 41.8 E25 38 33.6 |
| 450 | 156 m | 28 m | 27° true | S33 25 40.9 E25 38 33.7 |
| 451 | 156 m | 21 m | 19° true | S33 25 40.1 E25 38 34.2 |
| 452 | 155 m | 27 m | 11° true | S33 25 39.5 E25 38 34.4 |
| 453 | 153 m | 2 m | 47° true | S33 25 38.6 E25 38 34.6 |
| 454 | 153 m | 32 m | 50° true | S33 25 38.6 E25 38 34.7 |
| 455 | 152 m | 18 m | 80° true | S33 25 37.9 E25 38 35.6 |
| 456 | 153 m | 42 m | 74° true | S33 25 37.8 E25 38 36.3 |
| 457 | 153 m | 100 m | 99° true | S33 25 37.4 E25 38 37.9 |
| 458 | 153 m | 19 m | 99° true | S33 25 38.0 E25 38 41.7 |
| 459 | 153 m | 8 m | 96° true | S33 25 38.1 E25 38 42.4 |
| 460 | 153 m | 54 m | 73° true | S33 25 38.1 E25 38 42.8 |

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| 461 | 153 m | 20 m | 76° true | S33 25 37.6 E25 38 44.8 |
| 462 | 153 m | 54 m | 54° true | S33 25 37.4 E25 38 45.5 |
| 463 | 152 m | 16 m | 63° true | S33 25 36.4 E25 38 47.2 |
| 464 | 153 m | 29 m | 67° true | S33 25 36.2 E25 38 47.7 |
| 465 | 154 m | 50 m | 48° true | S33 25 35.8 E25 38 48.8 |
| 466 | 153 m | 22 m | 26° true | S33 25 34.7 E25 38 50.2 |
| 467 | 153 m | 59 m | 8° true | S33 25 34.1 E25 38 50.6 |
| 468 | 152 m | 56 m | 39° true | S33 25 32.2 E25 38 50.9 |
| 469 | 153 m | 21 m | 64° true | S33 25 30.8 E25 38 52.2 |
| 470 | 152 m | 36 m | 75° true | S33 25 30.5 E25 38 53.0 |
| 471 | 153 m | 38 m | 57° true | S33 25 30.2 E25 38 54.3 |
| 472 | 153 m | 77 m | 42° true | S33 25 29.5 E25 38 55.6 |
| 473 | 153 m | 32 m | 41° true | S33 25 27.7 E25 38 57.5 |
| 474 | 151 m | 12 m | 300° true | S33 25 26.9 E25 38 58.3 |
| 475 | 149 m | 69 m | 266° true | S33 25 26.7 E25 38 58.0 |
| 476 | 153 m | 112 m | 266° true | S33 25 26.9 E25 38 55.3 |
| 477 | 150 m | 101 m | 266° true | S33 25 27.1 E25 38 51.0 |
| 478 | 147 m | 110 m | 267° true | S33 25 27.4 E25 38 47.1 |
| 479 | 144 m | 45 m | 266° true | S33 25 27.6 E25 38 42.8 |
| 480 | 141 m | 85 m | 266° true | S33 25 27.7 E25 38 41.1 |
| 481 | 140 m | 137 m | 265° true | S33 25 27.9 E25 38 37.8 |
| 482 | 137 m | 79 m | 269° true | S33 25 28.3 E25 38 32.5 |
| 483 | 135 m | 7 m | 272° true | S33 25 28.3 E25 38 29.4 |
| 484 | 135 m | 111 m | 266° true | S33 25 28.3 E25 38 29.1 |
| 485 | 134 m | 51 m | 266° true | S33 25 28.6 E25 38 24.8 |
| 486 | 133 m | 185 m | 266° true | S33 25 28.7 E25 38 22.9 |
| 487 | 132 m | 73 m | 266° true | S33 25 29.1 E25 38 15.7 |
| 488 | 128 m | 142 m | 266° true | S33 25 29.3 E25 38 12.9 |
| 489 | 124 m | 6 m | 259° true | S33 25 29.6 E25 38 07.4 |
| 490 | 124 m | 7 m | 174° true | S33 25 29.6 E25 38 07.2 |
| 491 | 124 m | 28 m | 161° true | S33 25 29.8 E25 38 07.2 |
| 492 | 126 m | 33 m | 165° true | S33 25 30.7 E25 38 07.6 |
| 493 | 128 m | 46 m | 167° true | S33 25 31.7 E25 38 07.9 |
| 494 | 131 m | 26 m | 166° true | S33 25 33.2 E25 38 08.3 |
| 495 | 132 m | 51 m | 166° true | S33 25 34.0 E25 38 08.6 |
| 496 | 136 m | 9 m | 169° true | S33 25 35.6 E25 38 09.1 |
| 497 | 136 m | 52 m | 168° true | S33 25 35.9 E25 38 09.1 |
| 498 | 138 m | 34 m | 176° true | S33 25 37.5 E25 38 09.6 |
| 499 | 140 m | 16 m | 175° true | S33 25 38.6 E25 38 09.7 |
| 500 | 142 m | 43 m | 176° true | S33 25 39.1 E25 38 09.7 |
| 501 | 145 m | 8 m | 174° true | S33 25 40.5 E25 38 09.8 |
| 502 | 145 m | 57 m | 177° true | S33 25 40.8 E25 38 09.9 |
| 503 | 147 m | 22 m | 178° true | S33 25 42.6 E25 38 10.0 |
| 504 | 148 m | 67 m | 173° true | S33 25 43.3 E25 38 10.0 |
| 505 | 150 m | 7 m | 347° true | S33 25 45.5 E25 38 10.3 |
| 506 | 150 m | 35 m | 177° true | S33 25 45.3 E25 38 10.3 |
| 507 | 152 m | 17 m | 177° true | S33 25 46.4 E25 38 10.3 |
| 508 | 153 m | 75 m | 176° true | S33 25 46.9 E25 38 10.4 |
| 509 | 157 m | 7 m | 169° true | S33 25 49.4 E25 38 10.6 |
| 510 | 155 m | 33 m | 177° true | S33 25 49.6 E25 38 10.6 |
| 511 | 159 m | 23 m | 176° true | S33 25 50.7 E25 38 10.7 |
| 512 | 162 m | 8 m | 175° true | S33 25 51.4 E25 38 10.8 |
| 513 | 162 m | 17 m | 176° true | S33 25 51.7 E25 38 10.8 |
| 514 | 163 m | 27 m | 175° true | S33 25 52.2 E25 38 10.8 |
| 515 | 165 m | 26 m | 176° true | S33 25 53.1 E25 38 10.9 |
| 516 | 167 m | 17 m | 176° true | S33 25 53.9 E25 38 11.0 |
| 517 | 169 m | 49 m | 175° true | S33 25 54.5 E25 38 11.0 |
| 518 | 173 m | 42 m | 177° true | S33 25 56.0 E25 38 11.2 |

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| 519 | 176 m | 9 m | 174° true | S33 25 57.4 E25 38 11.3 |
| 520 | 177 m | 35 m | 175° true | S33 25 57.7 E25 38 11.3 |
| 521 | 179 m | 106 m | 175° true | S33 25 58.8 E25 38 11.4 |
| 522 | 181 m | 77 m | 185° true | S33 26 02.2 E25 38 11.8 |
| 523 | 178 m | 26 m | 189° true | S33 26 04.7 E25 38 11.6 |
| 524 | 174 m | 33 m | 189° true | S33 26 05.5 E25 38 11.4 |
| 525 | 171 m | 18 m | 187° true | S33 26 06.6 E25 38 11.2 |
| 526 | 169 m | 27 m | 188° true | S33 26 07.2 E25 38 11.1 |
| 527 | 166 m | 36 m | 188° true | S33 26 08.0 E25 38 11.0 |
| 528 | 163 m | 9 m | 188° true | S33 26 09.2 E25 38 10.8 |
| 529 | 163 m | 49 m | 187° true | S33 26 09.4 E25 38 10.7 |
| 530 | 162 m | 63 m | 186° true | S33 26 11.0 E25 38 10.5 |
| 531 | 164 m | 18 m | 135° true | S33 26 13.1 E25 38 10.2 |
| 532 | 164 m | 93 m | 77° true | S33 26 13.5 E25 38 10.7 |
| 533 | 165 m | 33 m | 79° true | S33 26 12.8 E25 38 14.2 |
| 534 | 166 m | 48 m | 79° true | S33 26 12.6 E25 38 15.5 |
| 535 | 169 m | 93 m | 79° true | S33 26 12.3 E25 38 17.3 |
| 536 | 168 m | 31 m | 81° true | S33 26 11.7 E25 38 20.8 |
| 537 | 165 m | 14 m | 80° true | S33 26 11.6 E25 38 22.0 |
| 538 | 164 m | 29 m | 79° true | S33 26 11.5 E25 38 22.5 |
| 539 | 163 m | 22 m | 78° true | S33 26 11.3 E25 38 23.7 |
| 540 | 159 m | 43 m | 80° true | S33 26 11.2 E25 38 24.5 |
| 541 | 155 m | 7 m | 80° true | S33 26 10.9 E25 38 26.1 |
| 542 | 155 m | 48 m | 79° true | S33 26 10.9 E25 38 26.4 |
| 543 | 152 m | 6 m | 79° true | S33 26 10.6 E25 38 28.2 |
| 544 | 151 m | 103 m | 79° true | S33 26 10.5 E25 38 28.5 |
| 545 | 151 m | 26 m | 77° true | S33 26 09.9 E25 38 32.4 |
| 546 | 154 m | 62 m | 76° true | S33 26 09.7 E25 38 33.4 |
| 547 | 157 m | 36 m | 80° true | S33 26 09.2 E25 38 35.7 |
| 548 | 161 m | 37 m | 80° true | S33 26 09.0 E25 38 37.1 |
| 549 | 165 m | 7 m | 79° true | S33 26 08.8 E25 38 38.5 |
| 550 | 165 m | 21 m | 77° true | S33 26 08.8 E25 38 38.8 |
| 551 | 167 m | 15 m | 78° true | S33 26 08.6 E25 38 39.6 |
| 552 | 169 m | 147 m | 79° true | S33 26 08.5 E25 38 40.2 |
| 553 | 172 m | 134 m | 79° true | S33 26 07.6 E25 38 45.8 |
| 554 | 168 m | 150 m | 78° true | S33 26 06.8 E25 38 50.9 |
| 555 | 170 m | 69 m | 78° true | S33 26 05.8 E25 38 56.6 |
| 556 | 174 m | 44 m | 78° true | S33 26 05.3 E25 38 59.2 |
| 557 | 178 m | 18 m | 80° true | S33 26 05.0 E25 39 00.8 |
| 558 | 178 m | 30 m | 73° true | S33 26 04.9 E25 39 01.5 |
| 559 | 179 m | 0 m | 291° true | S33 26 04.6 E25 39 02.6 |
| 560 | 179 m | 11 m | 357° true | S33 26 04.6 E25 39 02.6 |
| 561 | 179 m | 9 m | 168° true | S33 26 04.3 E25 39 02.6 |
| 562 | 179 m | 9 m | 212° true | S33 26 04.6 E25 39 02.7 |
| 563 | 178 m | 11 m | 149° true | S33 26 04.8 E25 39 02.5 |
| 564 | 179 m | 87 m | 177° true | S33 26 05.1 E25 39 02.7 |
| 565 | 178 m | 71 m | 175° true | S33 26 08.0 E25 39 02.9 |
| 566 | 175 m | 9 m | 174° true | S33 26 10.2 E25 39 03.1 |
| 567 | 175 m | 144 m | 174° true | S33 26 10.5 E25 39 03.2 |
| 568 | 172 m | 22 m | 174° true | S33 26 15.2 E25 39 03.7 |
| 569 | 170 m | 33 m | 176° true | S33 26 15.9 E25 39 03.8 |
| 570 | 167 m | 22 m | 175° true | S33 26 17.0 E25 39 03.9 |
| 571 | 166 m | 33 m | 176° true | S33 26 17.7 E25 39 04.0 |
| 572 | 162 m | 32 m | 176° true | S33 26 18.7 E25 39 04.1 |
| 573 | 159 m | 30 m | 175° true | S33 26 19.8 E25 39 04.2 |
| 574 | 156 m | 18 m | 174° true | S33 26 20.8 E25 39 04.3 |
| 575 | 155 m | 26 m | 178° true | S33 26 21.3 E25 39 04.4 |
| 576 | 152 m | 1 m | 303° true | S33 26 22.2 E25 39 04.4 |

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| 577 | 152 m | 7 m | 168° true | S33 26 22.2 E25 39 04.4 |
| 578 | 152 m | 2 m | 26° true | S33 26 22.4 E25 39 04.4 |
| 579 | 152 m | 3 m | 337° true | S33 26 22.4 E25 39 04.5 |
| 580 | 152 m | 9 m | 180° true | S33 26 22.3 E25 39 04.4 |
| 581 | 151 m | 10 m | 109° true | S33 26 22.5 E25 39 04.4 |
| 582 | 150 m | 7 m | 256° true | S33 26 22.6 E25 39 04.8 |
| 583 | 151 m | 24 m | 347° true | S33 26 22.7 E25 39 04.5 |
| 584 | 152 m | 63 m | 356° true | S33 26 22.0 E25 39 04.3 |
| 585 | 156 m | 25 m | 355° true | S33 26 19.9 E25 39 04.1 |
| 586 | 158 m | 18 m | 356° true | S33 26 19.1 E25 39 04.0 |
| 587 | 162 m | 38 m | 355° true | S33 26 18.5 E25 39 04.0 |
| 588 | 165 m | 20 m | 355° true | S33 26 17.3 E25 39 03.8 |
| 589 | 166 m | 31 m | 355° true | S33 26 16.6 E25 39 03.8 |
| 590 | 167 m | 41 m | 355° true | S33 26 15.6 E25 39 03.7 |
| 591 | 171 m | 89 m | 354° true | S33 26 14.3 E25 39 03.5 |
| 592 | 175 m | 106 m | 355° true | S33 26 11.5 E25 39 03.2 |
| 593 | 178 m | 133 m | 355° true | S33 26 08.1 E25 39 02.8 |
| 594 | 182 m | 100 m | 355° true | S33 26 03.8 E25 39 02.4 |
| 595 | 185 m | 190 m | 356° true | S33 26 00.6 E25 39 02.1 |
| 596 | 185 m | 139 m | 355° true | S33 25 54.4 E25 39 01.5 |
| 597 | 183 m | 20 m | 337° true | S33 25 49.9 E25 39 01.0 |
| 598 | 181 m | 68 m | 322° true | S33 25 49.3 E25 39 00.7 |
| 599 | 178 m | 40 m | 322° true | S33 25 47.6 E25 38 59.1 |
| 600 | 174 m | 51 m | 322° true | S33 25 46.6 E25 38 58.1 |
| 601 | 171 m | 35 m | 321° true | S33 25 45.3 E25 38 56.9 |
| 602 | 168 m | 82 m | 321° true | S33 25 44.4 E25 38 56.1 |
| 603 | 165 m | 32 m | 321° true | S33 25 42.4 E25 38 54.1 |
| 604 | 161 m | 8 m | 323° true | S33 25 41.5 E25 38 53.3 |
| 605 | 160 m | 2 m | 147° true | S33 25 41.3 E25 38 53.1 |
| 606 | 161 m | 5 m | 322° true | S33 25 41.4 E25 38 53.2 |
| 607 | 161 m | 0 m | 96° true | S33 25 41.3 E25 38 53.1 |
| 608 | 156 m | 0 m | 287° true | S33 25 41.3 E25 38 53.1 |
| 609 | 158 m | 1 m | 211° true | S33 25 41.3 E25 38 53.1 |
| 610 | 165 m | 0 m | 190° true | S33 25 41.3 E25 38 53.1 |
| 611 | 161 m | 2 m | 247° true | S33 25 41.3 E25 38 53.1 |
| 612 | 161 m | 9 m | 352° true | S33 25 41.3 E25 38 53.0 |
| 613 | 160 m | 0 m | 140° true | S33 25 41.0 E25 38 52.9 |
| 614 | 161 m | 4 m | 201° true | S33 25 41.0 E25 38 52.9 |
| 615 | 161 m | 10 m | 116° true | S33 25 41.1 E25 38 52.9 |
| 616 | 162 m | 7 m | 138° true | S33 25 41.3 E25 38 53.3 |
| 617 | 162 m | 88 m | 142° true | S33 25 41.5 E25 38 53.4 |
| 618 | 167 m | 41 m | 143° true | S33 25 43.7 E25 38 55.5 |
| 619 | 170 m | 17 m | 144° true | S33 25 44.8 E25 38 56.5 |
| 620 | 171 m | 67 m | 143° true | S33 25 45.2 E25 38 56.9 |
| 621 | 175 m | 32 m | 141° true | S33 25 46.9 E25 38 58.5 |
| 622 | 178 m | 8 m | 145° true | S33 25 47.7 E25 38 59.2 |
| 623 | 178 m | 23 m | 139° true | S33 25 48.0 E25 38 59.4 |
| 624 | 180 m | 13 m | 142° true | S33 25 48.5 E25 39 00.0 |
| 625 | 180 m | 19 m | 223° true | S33 25 48.8 E25 39 00.3 |
| 626 | 180 m | 39 m | 272° true | S33 25 49.3 E25 38 59.8 |
| 627 | 178 m | 13 m | 270° true | S33 25 49.2 E25 38 58.3 |
| 628 | 177 m | 18 m | 269° true | S33 25 49.2 E25 38 57.8 |
| 629 | 176 m | 71 m | 272° true | S33 25 49.3 E25 38 57.1 |
| 630 | 172 m | 99 m | 270° true | S33 25 49.2 E25 38 54.3 |
| 631 | 172 m | 44 m | 266° true | S33 25 49.2 E25 38 50.5 |
| 632 | 170 m | 6 m | 19° true | S33 25 49.3 E25 38 48.8 |
| 633 | 170 m | 1 m | 105° true | S33 25 49.1 E25 38 48.9 |
| 634 | 170 m | 8 m | 126° true | S33 25 49.1 E25 38 48.9 |

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| 635 | 170 m | 8 m | 149° true | S33 25 49.3 E25 38 49.2 |
| 636 | 171 m | 8 m | 163° true | S33 25 49.5 E25 38 49.3 |
| 637 | 171 m | 10 m | 115° true | S33 25 49.7 E25 38 49.4 |
| 638 | 172 m | 1 m | 102° true | S33 25 49.9 E25 38 49.8 |
| 639 | 173 m | 4 m | 260° true | S33 25 49.9 E25 38 49.8 |
| 640 | 172 m | 3 m | 206° true | S33 25 49.9 E25 38 49.7 |
| 641 | 171 m | 14 m | 160° true | S33 25 50.0 E25 38 49.6 |
| 642 | 173 m | 1 m | 320° true | S33 25 50.4 E25 38 49.8 |
| 643 | 174 m | 12 m | 351° true | S33 25 50.4 E25 38 49.8 |
| 644 | 173 m | 10 m | 326° true | S33 25 50.0 E25 38 49.7 |
| 645 | 173 m | 12 m | 348° true | S33 25 49.8 E25 38 49.5 |
| 646 | 171 m | 0 m | 310° true | S33 25 49.4 E25 38 49.4 |
| 647 | 172 m | 3 m | 322° true | S33 25 49.4 E25 38 49.4 |
| 648 | 167 m | 0 m | 125° true | S33 25 49.3 E25 38 49.4 |
| 649 | 172 m | 1 m | 174° true | S33 25 49.3 E25 38 49.4 |
| 650 | 172 m | 4 m | 346° true | S33 25 49.4 E25 38 49.4 |
| 651 | 171 m | 4 m | 297° true | S33 25 49.2 E25 38 49.3 |
| 652 | 172 m | 5 m | 271° true | S33 25 49.2 E25 38 49.2 |
| 653 | 171 m | 0 m | 90° true | S33 25 49.2 E25 38 49.0 |
| 654 | 171 m | 3 m | 157° true | S33 25 49.2 E25 38 49.0 |
| 655 | 171 m | 0 m | 25° true | S33 25 49.3 E25 38 49.1 |
| 656 | 170 m | 3 m | 301° true | S33 25 49.2 E25 38 49.1 |
| 657 | 167 m | 0 m | 258° true | S33 25 49.2 E25 38 49.0 |
| 658 | 168 m | 0 m | 231° true | S33 25 49.2 E25 38 48.9 |
| 659 | 175 m | 0 m | 325° true | S33 25 49.2 E25 38 48.9 |
| 660 | 172 m | 2 m | 356° true | S33 25 49.2 E25 38 48.9 |
| 661 | 171 m | 11 m | 267° true | S33 25 49.1 E25 38 48.9 |
| 662 | 172 m | 74 m | 268° true | S33 25 49.1 E25 38 48.5 |
| 663 | 173 m | 180 m | 270° true | S33 25 49.2 E25 38 45.6 |
| 664 | 173 m | 39 m | 270° true | S33 25 49.2 E25 38 38.6 |
| 665 | 171 m | 4 m | 53° true | S33 25 49.2 E25 38 37.1 |
| 666 | 170 m | 5 m | 81° true | S33 25 49.1 E25 38 37.2 |
| 667 | 170 m | 10 m | 192° true | S33 25 49.1 E25 38 37.4 |
| 668 | 171 m | 47 m | 175° true | S33 25 49.4 E25 38 37.3 |
| 669 | 169 m | 47 m | 173° true | S33 25 50.9 E25 38 37.5 |
| 670 | 169 m | 129 m | 174° true | S33 25 52.4 E25 38 37.7 |
| 671 | 170 m | 112 m | 174° true | S33 25 56.6 E25 38 38.3 |
| 672 | 169 m | 124 m | 174° true | S33 26 00.2 E25 38 38.8 |
| 673 | 169 m | 102 m | 174° true | S33 26 04.2 E25 38 39.3 |
| 674 | 167 m | 38 m | 174° true | S33 26 07.5 E25 38 39.7 |
| 675 | 166 m | 2 m | 323° true | S33 26 08.7 E25 38 39.8 |
| 676 | 168 m | 0 m | 206° true | S33 26 08.6 E25 38 39.8 |
| 677 | 167 m | 6 m | 344° true | S33 26 08.6 E25 38 39.8 |
| 678 | 167 m | 8 m | 128° true | S33 26 08.5 E25 38 39.7 |
| 679 | 168 m | 3 m | 304° true | S33 26 08.6 E25 38 40.0 |
| 680 | 168 m | 7 m | 322° true | S33 26 08.6 E25 38 39.9 |
| 681 | 168 m | 10 m | 212° true | S33 26 08.4 E25 38 39.7 |
| 682 | 168 m | 7 m | 259° true | S33 26 08.7 E25 38 39.5 |
| 683 | 167 m | 3 m | 244° true | S33 26 08.7 E25 38 39.2 |
| 684 | 168 m | 15 m | 261° true | S33 26 08.8 E25 38 39.1 |
| 685 | 165 m | 1 m | 248° true | S33 26 08.8 E25 38 38.6 |
| 686 | 165 m | 1 m | 78° true | S33 26 08.9 E25 38 38.5 |
| 687 | 166 m | 15 m | 259° true | S33 26 08.9 E25 38 38.5 |
| 688 | 165 m | 22 m | 258° true | S33 26 08.9 E25 38 37.9 |
| 689 | 161 m | 6 m | 259° true | S33 26 09.1 E25 38 37.1 |
| 690 | 161 m | 30 m | 259° true | S33 26 09.1 E25 38 36.9 |
| 691 | 157 m | 6 m | 258° true | S33 26 09.3 E25 38 35.7 |
| 692 | 157 m | 32 m | 260° true | S33 26 09.4 E25 38 35.5 |

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| 693 | 154 m | 4 m | 259° true | S33 26 09.5 E25 38 34.3 |
| 694 | 154 m | 41 m | 258° true | S33 26 09.6 E25 38 34.1 |
| 695 | 151 m | 46 m | 259° true | S33 26 09.8 E25 38 32.6 |
| 696 | 150 m | 50 m | 259° true | S33 26 10.1 E25 38 30.8 |
| 697 | 150 m | 17 m | 263° true | S33 26 10.4 E25 38 28.9 |
| 698 | 151 m | 10 m | 328° true | S33 26 10.5 E25 38 28.3 |
| 699 | 151 m | 5 m | 19° true | S33 26 10.2 E25 38 28.1 |
| 700 | 152 m | 2 m | 71° true | S33 26 10.1 E25 38 28.1 |
| 701 | 154 m | 29 m | 355° true | S33 26 10.1 E25 38 28.2 |
| 702 | 154 m | 87 m | 350° true | S33 26 09.1 E25 38 28.1 |
| 703 | 156 m | 67 m | 353° true | S33 26 06.3 E25 38 27.5 |
| 704 | 156 m | 2 m | 338° true | S33 26 04.2 E25 38 27.2 |
| 705 | 157 m | 25 m | 353° true | S33 26 04.1 E25 38 27.2 |
| 706 | 156 m | 14 m | 351° true | S33 26 03.3 E25 38 27.0 |
| 707 | 156 m | 25 m | 4° true | S33 26 02.9 E25 38 27.0 |
| 708 | 157 m | 47 m | 359° true | S33 26 02.0 E25 38 27.0 |
| 709 | 157 m | 7 m | 354° true | S33 26 00.5 E25 38 27.0 |
| 710 | 156 m | 28 m | 1° true | S33 26 00.3 E25 38 27.0 |
| 711 | 156 m | 100 m | 6° true | S33 25 59.4 E25 38 27.0 |
| 712 | 158 m | 25 m | 348° true | S33 25 56.2 E25 38 27.4 |
| 713 | 158 m | 21 m | 296° true | S33 25 55.4 E25 38 27.2 |
| 714 | 159 m | 26 m | 329° true | S33 25 55.1 E25 38 26.5 |
| 715 | 159 m | 13 m | 344° true | S33 25 54.3 E25 38 25.9 |
| 716 | 159 m | 19 m | 353° true | S33 25 54.0 E25 38 25.8 |
| 717 | 160 m | 78 m | 340° true | S33 25 53.3 E25 38 25.7 |
| 718 | 161 m | 72 m | 351° true | S33 25 51.0 E25 38 24.7 |
| 719 | 160 m | 35 m | 30° true | S33 25 48.6 E25 38 24.3 |
| 720 | 161 m | 79 m | 54° true | S33 25 47.7 E25 38 24.9 |
| 721 | 164 m | 22 m | 45° true | S33 25 46.1 E25 38 27.4 |
| 722 | 165 m | 29 m | 52° true | S33 25 45.6 E25 38 28.0 |
| 723 | 164 m | 38 m | 58° true | S33 25 45.1 E25 38 28.9 |
| 724 | 162 m | 21 m | 69° true | S33 25 44.4 E25 38 30.1 |
| 725 | 163 m | 86 m | 50° true | S33 25 44.2 E25 38 30.9 |
| 726 | 161 m | 20 m | 15° true | S33 25 42.4 E25 38 33.5 |
| 727 | 160 m | 16 m | 0° true | S33 25 41.7 E25 38 33.7 |
| 728 | 159 m | 15 m | 14° true | S33 25 41.2 E25 38 33.7 |
| 729 | 158 m | 5 m | 34° true | S33 25 40.7 E25 38 33.8 |
| 730 | 158 m | 25 m | 33° true | S33 25 40.6 E25 38 33.9 |
| 731 | 158 m | 52 m | 12° true | S33 25 39.9 E25 38 34.4 |
| 732 | 155 m | 10 m | 308° true | S33 25 38.3 E25 38 34.9 |
| 733 | 154 m | 3 m | 229° true | S33 25 38.1 E25 38 34.6 |
| 734 | 155 m | 8 m | 157° true | S33 25 38.2 E25 38 34.5 |
| 735 | 155 m | 6 m | 45° true | S33 25 38.4 E25 38 34.6 |
| 736 | 155 m | 14 m | 45° true | S33 25 38.3 E25 38 34.8 |
| 737 | 154 m | 26 m | 78° true | S33 25 37.9 E25 38 35.2 |
| 738 | 155 m | 44 m | 74° true | S33 25 37.8 E25 38 36.1 |
| 739 | 154 m | 55 m | 102° true | S33 25 37.4 E25 38 37.8 |
| 740 | 156 m | 69 m | 97° true | S33 25 37.7 E25 38 39.9 |
| 741 | 156 m | 28 m | 82° true | S33 25 38.0 E25 38 42.5 |
| 742 | 156 m | 56 m | 74° true | S33 25 37.9 E25 38 43.6 |
| 743 | 155 m | 28 m | 57° true | S33 25 37.4 E25 38 45.7 |
| 744 | 155 m | 30 m | 53° true | S33 25 36.9 E25 38 46.6 |
| 745 | 155 m | 28 m | 69° true | S33 25 36.3 E25 38 47.5 |
| 746 | 154 m | 0 m | 246° true | S33 25 36.0 E25 38 48.5 |
| 747 | 154 m | 18 m | 249° true | S33 25 36.0 E25 38 48.5 |
| 748 | 153 m | 10 m | 114° true | S33 25 36.2 E25 38 47.9 |
| 749 | 154 m | 71 m | 138° true | S33 25 36.3 E25 38 48.2 |
| 750 | 156 m | 44 m | 140° true | S33 25 38.0 E25 38 50.1 |

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| 751 | 157 m | 29 m | 144° true | S33 25 39.1 E25 38 51.2 |
| 752 | 159 m | 55 m | 141° true | S33 25 39.9 E25 38 51.8 |
| 753 | 163 m | 65 m | 141° true | S33 25 41.3 E25 38 53.2 |
| 754 | 165 m | 52 m | 141° true | S33 25 42.9 E25 38 54.8 |
| 755 | 168 m | 44 m | 141° true | S33 25 44.2 E25 38 56.0 |
| 756 | 172 m | 57 m | 142° true | S33 25 45.3 E25 38 57.1 |
| 757 | 176 m | 32 m | 142° true | S33 25 46.8 E25 38 58.5 |
| 758 | 178 m | 46 m | 142° true | S33 25 47.6 E25 38 59.2 |
| 759 | 180 m | 29 m | 145° true | S33 25 48.7 E25 39 00.3 |
| 760 | 182 m | 25 m | 162° true | S33 25 49.5 E25 39 01.0 |
| 761 | 185 m | 136 m | 176° true | S33 25 50.3 E25 39 01.2 |
| 762 | 186 m | 126 m | 176° true | S33 25 54.7 E25 39 01.6 |
| 763 | 183 m | 103 m | 175° true | S33 25 58.7 E25 39 02.0 |
| 764 | 182 m | 17 m | 176° true | S33 26 02.1 E25 39 02.3 |
| 765 | 184 m | 31 m | 174° true | S33 26 02.6 E25 39 02.3 |
| 766 | 180 m | 7 m | 174° true | S33 26 03.6 E25 39 02.5 |
| 767 | 180 m | 34 m | 174° true | S33 26 03.8 E25 39 02.5 |
| 768 | 180 m | 1 m | 285° true | S33 26 04.9 E25 39 02.6 |
| 769 | 178 m | 29 m | 176° true | S33 26 04.9 E25 39 02.6 |
| 770 | 178 m | 118 m | 176° true | S33 26 05.9 E25 39 02.6 |
| 771 | 175 m | 5 m | 175° true | S33 26 09.7 E25 39 03.0 |
| 772 | 174 m | 46 m | 172° true | S33 26 09.8 E25 39 03.0 |
| 773 | 172 m | 0 m | 186° true | S33 26 11.3 E25 39 03.3 |
| 774 | 172 m | 3 m | 339° true | S33 26 11.3 E25 39 03.3 |
| 775 | 172 m | 11 m | 21° true | S33 26 11.2 E25 39 03.2 |
| 776 | 172 m | 1 m | 104° true | S33 26 10.9 E25 39 03.4 |
| 777 | 172 m | 2 m | 20° true | S33 26 10.9 E25 39 03.4 |
| 778 | 171 m | 2 m | 85° true | S33 26 10.8 E25 39 03.4 |
| 779 | 171 m | 1 m | 273° true | S33 26 10.8 E25 39 03.5 |
| 780 | 166 m | 0 m | 47° true | S33 26 10.8 E25 39 03.5 |
| 781 | 173 m | 1 m | 31° true | S33 26 10.8 E25 39 03.5 |
| 782 | 169 m | 1 m | 0° true | S33 26 10.8 E25 39 03.5 |
| 783 | 176 m | 0 m | 305° true | S33 26 10.8 E25 39 03.5 |
| 784 | 173 m | 1 m | 342° true | S33 26 10.8 E25 39 03.5 |
| 785 | 171 m | 1 m | 303° true | S33 26 10.8 E25 39 03.5 |
| 786 | 172 m | 5 m | 201° true | S33 26 10.8 E25 39 03.4 |
| 787 | 167 m | 1 m | 201° true | S33 26 10.9 E25 39 03.4 |
| 788 | 176 m | 1 m | 201° true | S33 26 10.9 E25 39 03.4 |
| 789 | 173 m | 1 m | 223° true | S33 26 11.0 E25 39 03.3 |
| 790 | 172 m | 3 m | 223° true | S33 26 11.0 E25 39 03.3 |
| 791 | 172 m | 5 m | 186° true | S33 26 11.0 E25 39 03.3 |