BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF SOUTH DAKOTA

IN THE MATTER OF THE APPLICATION BY TATANKA RIDGE WIND, LLC FOR A PERMIT FOR A WIND ENERGY FACILITY IN DEUEL COUNTY, SOUTH DAKOTA, FOR TATANKA RIDGE WIND FARM

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PRE-FILED DIRECT TESTIMONY OF JANELLE RIELAND, WESTERN ECOSYSTEMS TECHNOLOGY, INC., ON BEHALF OF TATANKA RIDGE WIND, LLC

June 17, 2019

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I. INTRODUCTION AND QUALIFICATIONS

2	Q.	Please state your name, employer, and business address for the record.
3	A.	My name is Janelle Rieland. I am employed by Western EcoSystems Technology Inc.
4		("WEST"), and my business address is 7575 Golden Valley Road, Golden Valley,
5		Minnesota 55427.
6	Q.	Briefly describe your educational background.
7	A.	I received a Bachelor of Science degree in 2002 from the University of Minnesota, Twin
8		Cities, with a Major in Fisheries and Wildlife, and a minor in Biology.
9	Q.	Briefly describe your professional experience.
10	A.	I have 15 years of experience in the energy industry, specializing in project permitting;
11		consulting with the U.S. Fish and Wildlife Service ("USFWS") under the Endangered
12		Species Act and Bald and Golden Eagle Protection Act; conducting project reviews under
13		the National Environmental Policy Act; and managing surveys for both terrestrial and
14		aquatic species, including species-specific surveys conducted in accordance with USFWS
15		and state agency protocols. My professional specializations are environmental review
16		focusing on wildlife and endangered species as well as project management.
17	Q.	What is your role with respect to the Tatanka Ridge Wind Project ("Project")?
18	A.	WEST was engaged by Tatanka Ridge Wind, LLC ("Tatanka Ridge") to conduct desktop
19		reviews (i.e., Site Characterization Study, Northern Long-eared Bat Habitat Assessment,
20		and Butterfly Habitat Assessment), avian raptor nest surveys, avian use point-count
21		surveys, and northern long-eared bat (Myotis septentrionalis) acoustic presence/probable
22		absence surveys for the Project, which I managed.

23	Q.	Have you attached a resume or CV?		
24	A.	Yes, my resume is attached.		
25	Q.	Have you previously submitted or prepared testimony in this proceeding in South		
26		Dakota?		
27	A.	No, I have not.		
28	II.	PURPOSE OF TESTIMONY		
29	Q.	What is the purpose of your direct testimony?		
30	A.	The purpose of my direct testimony is to provide information concerning the existing		
31		condition of terrestrial and aquatic ecosystems in the area of the proposed Project		
32	("Project Area"); potential impacts of the Project on terrestrial and aquatic ecosystems			
33		and how the Project will avoid, minimize, or mitigate potential impacts.		
34	Q.	Which sections of the Application you are sponsoring?		
35	A.	I am sponsoring two sections of the Application and the relevant appendices, including:		
36		Section 9 Terrestrial Ecosystems		
37		Section 10 Aquatic Ecosystems		
38		Appendix D Dakota Skipper and Poweshiek Skipperling Survey Report		
39		Appendix E Protected Species Agency Documentation		
40		Appendix F Avian Use Report		
41		• Appendix G Eagle and Raptor Nest Survey Reports		
42		Appendix H Northern Long-eared Bat Habitat Assessments		
43		Appendix I Northern Long-eared Bat Survey Report		
44		Appendix J Site Characterization Study		

III. ENVIRONMENTAL STUDIES AND SURVEYS CONDUCTED BY WEST

46

Q. What vegetation is present within the Project Area?

A. As presented in Table 9-1 within the Application, approximately 71 percent of the Project
Area is mapped as cultivated crops and 21 percent is mapped as herbaceous (dominated
by grass-like species or plants without woody stems). Vegetation within the remaining
8 percent of the Project Area is mapped as developed, hay/pasture, emergent wetlands,
and deciduous forest.

52

53 A total of 5,874 acres of herbaceous lands are mapped within the Project Area.

54 Herbaceous lands within the Project Area were evaluated using a desktop assessment to identify potentially undisturbed grasslands in the Project Area (intact grassland areas that 55 56 have either never been tilled, or that may have been tilled in the late nineteenth and early twentieth century using equipment that did not disturb the soils to a depth where the soil 57 profile, topography, and/or grassland potential of the landscape was destroyed). As 58 59 described in additional detail in Section 9.1.1.1 of the Application, the desktop assessment identified 3,954 acres of herbaceous land within the Project Area that are 60 currently cultivated, planted tree rows, or heavily disturbed livestock corral areas 61 (referred to as Disturbed Grasslands). The remaining 1,920 acres (7 percent of the Project 62 Area) of herbaceous land within the Project Area was classified as potentially 63 64 undisturbed grasslands.

65

Areas classified as potentially undisturbed grasslands during the desktop assessment were
surveyed in June 2018 (eastern portion of the Project Area) and from late May through

early June 2019 (western portion of the Project Area) in order to determine the quality of
the vegetation community and its potential to support federally listed skippers. The
results of the grassland surveys, which are described in Section 9.1.1.1 of the
Application, determined that 1,906 acres (over 99 percent) are Non-native Undisturbed
Grasslands and the remaining 14 acres (less than 1 percent) are Native Undisturbed
Grasslands.

74

Q. How will the Project impact grasslands?

75 A total of 5,899 acres of lands mapped as herbaceous communities are within the area A. where ground disturbance will occur during Project construction. The Project has been 76 designed to minimize impacts to grasslands to the extent feasible. As a result, no turbines 77 are located within grasslands, and turbines will not be located within 1,383 feet of Native 78 79 Undisturbed Grasslands. Impacts to grasslands will primarily be limited to the 44.5 acres of Disturbed Grasslands and 15.2 acres of Non-native Undisturbed Grasslands. Impacts 80 81 from construction of the Project on these low- to moderate-quality grassland communities 82 will be short-term and minor. In addition, collector lines cross 100 feet of Native Undisturbed Grasslands; Tatanka Ridge will minimize ground disturbance within this 83 area and will continue to coordinate with the South Dakota Game, Fish, and Parks to 84 85 develop measures to minimize impacts to this Native Undisturbed Grassland.

86

87 Grassland habitat within the Project Area is highly fragmented, and largely occurs within
88 riparian areas adjacent to waterbodies. As such, additional fragmentation of grassland
89 habitat associated with construction and operation of the Project will be minimal

90	Q.	How will the Project avoid, minimize, or mitigate impacts to vegetation?
91	A.	The Project has been sited to avoid impacts to sensitive vegetation communities to the
92		extent feasible; of the 470.4 acres of vegetation within areas that will be disturbed during
93		construction of the Project, over 87 percent of the impacts will be within cultivated
94		croplands and developed areas.
95		
96		Forested communities within the Project Area are primarily limited to small woodlots
97		associated with farms and windbreaks. Tatanka Ridge has sited facilities to avoid tree
98		clearing wherever possible; as a result, less than 1 acre of land mapped as forest is within
99		the areas being impacted by construction. Tatanka Ridge will continue to work with the
100		landowners to minimize tree clearing.
101		
102		Project facilities have been sited to avoid grasslands to the extent feasible. As a result,
103		grasslands impacted by construction of the Project will be limited to 44.5 acres of
104		Disturbed Grasslands, 15.2 acres of Non-native Undisturbed Grasslands, and an
105		approximately 100-foot long collector line crossing of a Native Undisturbed Grassland. If
106		engineering constraints preclude complete avoidance of this Native Undisturbed
107		Grassland, additional minimization measures include limiting vehicle traffic wherever
108		possible in grasslands, replacing soils to follow the original soil profiles in areas where
109		native soils are disturbed, and restoring temporarily disturbed grassland areas based on
110		landowner specifications and/or using a weed-free native plant seed mix, if available. The
111		seed mixes and revegetation plan will be developed as part of the Stormwater Pollution
112		Prevention Plan for the Project.

Q. Have you considered noxious weeds relative to the Project?

114 Yes. Noxious and invasive weeds are regulated at both the state (South Dakota Codified A. Laws Titles 38–22) and federal (7 Code of Federal Regulations Part 360) level, with the 115 116 intent being to stop the spread of plants that are detrimental to the environment, crops, 117 livestock, and/or public health. According to the South Dakota Department of 118 Agriculture, a total of 10 noxious weeds are present in Deuel County. Four of these 119 species are designated as State Noxious Weeds and six are designated as Local Noxious 120 Weeds in Deuel County (Table 9-2 in the Application). Two species (musk thistle 121 [Carduus nutans – State Noxious Weed] and Canada thistle [Cirsium arvense – Local 122 Noxious Weed]) were documented in the Project Area during grassland surveys in June 123 2018. 124 Noxious weeds have the potential to spread through a variety of mechanisms. They can 125 126 be carried on vehicles' undercarriage and tires, and thrive in exposed soil conditions, 127 where they can out-compete native vegetation. Disturbance due to construction has the 128 potential to result in the spread of noxious weeds via work crews, on vehicles, and by 129 introduction to exposed soils from infested areas adjacent to construction activities. The 130 spread of noxious weeds will be avoided or minimized by delivering clean, washed

vehicles to the site; using weed-free straw or waddles for erosion control, if readily
available; and through the use of weed-free seed mixes, if available, following
construction.

134 Q. How did you determine existing use of the Project Area by terrestrial wildlife?

135 A. Numerous wildlife studies have been completed for the Project between 2009 and 2019,

as described in Table 9-3 of the Application. As often occurs during development of a

137 wind energy project, the Project Area has been modified since wildlife studies began; this occurs due to identification and avoidance of environmental constraints; conformance 138 139 with federal, state, and local permitting requirements; and landowner requests. Many of 140 the studies used to inform Project design commenced in 2018. Since that time, the Project 141 boundary has been modified, and is both somewhat larger and shifted westward 142 compared to what is described in some of the survey reports appended to the Application. 143 144 In accordance with Tiers 1 and 2 of the USFWS Land-Based Wind Energy Guidelines 145 ("WEG"), a Site Characterization Study was conducted utilizing desktop resources to identify potential sensitive species or habitats that could be located within or near the 146

147 Project. Resources reviewed included, but were not limited to, the USFWS Information 148 for Planning and Consultation and National Wetlands Inventory; US Geological Survey 149 ("USGS") National Land Cover Database, National Hydrography Dataset, Protected 150 Areas Database of the United States, and Breeding Bird Surveys; South Dakota Natural 151 Heritage Database; South Dakota State University's system for identifying potentially undisturbed land; and aerial imagery. Sensitive resources and habitats identified by the 152 Site Characterization Study were assessed in additional detail during subsequent surveys 153 154 (described below) and taken into consideration during Project design.

155

156 To determine the presence, relative abundance, and relative seasonal use of avian species 157 that occur within the Project Area, several surveys were conducted in accordance with Tier 3 of the WEG; Stage 2 of the Eagle Conservation Plan Guidance ("ECPG"); the 158

federal regulations regarding eagle permits;¹ and USFWS and South Dakota Game, Fish 159 and Parks guidance. Raptor nest surveys were conducted April 10-12, 2018 and April 2-160 161 3, 2019, which documented raptor nests of all species within one mile of the Project Area 162 and bald eagle (*Haliaeetus leucocephalus*) nests within 10 miles of the Project Area 163 (Appendix G of the Application). In addition, one year of eagle/avian use point count 164 surveys occurred monthly between April 2018 and March 2019, the results of which are 165 described in Appendix F of the Application. A second year of eagle/avian use point count 166 surveys began in April 2019 and will continue through March 2020. 167 168 Acoustic presence/probable absence surveys were conducted for the federally threatened 169 northern long-eared bat in July 2018 (Appendix I of the Application). Due to the change 170 in the Project boundary, northern long-eared bat acoustic presence/probable absence surveys were conducted in one additional location between May 30 and June 6, 2019 (the 171 172 results of which will be provided to the South Dakota Public Utilities Commission in a 173 supplemental filing when available). 174 Grassland surveys conducted in June 2018 documented a total of 41.5 acres of potential 175 176 Dakota Skipper (*Hesperia dacotae*) / Poweshiek skipperling (*Oarisma poweshiek*) Habitat, of which 39.0 acres is within the current Project Area. Adult occupancy surveys 177 178 were conducted in accordance with the USFWS 2018 Dakota Skipper North Dakota 179 Survey Protocol for the federally threatened Dakota skipper and federally endangered

See Eagle Permits; Revisions to Regulations for Eagle Incidental Take and Take of Eagle Nests; Final Rule. 50 Code of Federal Regulations Parts 13 and 22. Department of the Interior, Fish and Wildlife Service. 81 Federal Register 242: 91494–91554. December 16, 2016.

Poweshiek skipperling from June 23 through 28, 2018 (Appendix D of the Application).².
Due to the change in the Project boundary, grassland surveys were conducted within
1,920 acres of potentially undisturbed grasslands in the western portion of the Project
between May 28 – June 2, 2019. No Dakota Skipper / Poweshiek Skipperling Habitat was
documented within the western portion of the Project Area during grassland surveys (the
grassland survey report will be provided to the South Dakota Public Utilities Commission
in a supplemental filing when available).

187 Q. Are any federally listed terrestrial species and/or designated critical habitat, or 188 state-listed terrestrial species present within the Project Area?

Neither state- nor federally listed terrestrial species have been documented within the 189 A. 190 Project Area. An IPaC resource list was generated in May 2019 that identified four 191 federally endangered or threatened terrestrial species that are known or expected to occur near the Project: northern long-eared bat; red knot (Calidris canutus rufa); Dakota 192 193 skipper; and Poweshiek skipperling. The closest designated critical habitat to the Project 194 (Dakota skipper and Poweshiek skipperling, South Dakota Unit 2) is approximately three 195 miles south-southeast of the Project in Brookings County. One state-listed terrestrial wildlife species, the northern river otter (Lontra canadensis) has been documented within 196 Deuel County. A SDNHD review of the area within two miles of the Project in May 2019 197 did not contain records of either state- or federally listed terrestrial species within or near 198 199 the Project. Both the IPaC resource list and SDNHD review of the Project are included in

² The USFWS 2018 Dakota Skipper (*Hesperia dacotae*) North Dakota Survey Protocol has been approved by the USFWS for Dakota skipper and Poweshiek skipperling adult occupancy surveys in South Dakota. A letter from the USFWS granting site-specific authorization per condition F.3 of Federal Endangered Species Permit No. TE64070B-1 was provided to Mr. Jake Powell (Senior Ecologist, SWCA) on June 13, 2018, which is included in Appendix D of the Application.

Appendix E of the Application.

202		As described above (see previous question), species-specific surveys were conducted for
203		the northern long-eared bat in 2018 and 2019, and for the Dakota skipper and Poweshiek
204		skipperling in 2018. Surveys did not document use of the Project Area by federally listed
205		species. As described in Section 9.2.1.4 of the Application, the potential for the red knot
206		(federally listed as threatened) to occur in the Project Area is minimal due to its overall
207		rarity in the region and because suitable stopover habitat is not present. The northern
208		river otter, state-listed as threatened, is not expected to occur within the Project Area
209		because large, slow-moving waterbodies are not present.
210	Q.	Based on the analyses you have described, what are the anticipated Project impacts
211		on wildlife species?
212	A.	The primary impact to terrestrial wildlife that utilize habitat within the Project Area is
213		expected to be short-term displacement to nearby similar habitat due to habitat
214		modification, increased noise levels, and human activity. As discussed in Section 9.2.2.2
215		of the Application, Tatanka Ridge has sited Project facilities to minimize impacts to high
216		quality habitat and the wildlife species that utilize them. As a result, the Project will
217		impact less than 1 acre of forest, no turbines will be placed within grasslands, the closest
218		Native Undisturbed Grassland is approximately 1,800 feet from a turbine (Turbine B1),
219		and over 90% of the turbines are at least 300 feet from Non-native Undisturbed
220		Grasslands. Given that there is an adequate amount of similar or higher quality in the
221		vicinity of the Project, displacement associated with construction is likely to have
222		temporary and minor impacts to terrestrial wildlife.

224		Construction of the Project may also result in the direct mortality of some individuals of
225		less mobile wildlife species (e.g., reptiles and amphibians). Because the Project facilities
226		have been sited outside of sensitive habitats and are largely located within cultivated
227		croplands and developed areas (together accounting for over 87 percent of the impacted
228		area), these impacts are expected to be minor and not have population-level effects.
229		Tatanka Ridge will further reduce impacts to wildlife by instructing construction crews to
230		avoid disturbing or harassing wildlife and by removing trash from the Project Area to
231		avoid attracting scavengers or other wildlife to the construction area.
232		
233		During operation, the primary concern associated with wind energy facilities relates to
234		potential impacts to birds and bats. These species may be directly impacted by the Project
235		either through loss or avoidance of suitable habitat and/or by collision with turbines. As
236		described in Section 9.2.2 of the Application, the Project has been sited and designed to
237		avoid and minimize impacts to birds and bats, and impacts to these species are likely to
238		be similar to other facilities in the region.
239	Q.	Are any impacts to federally listed terrestrial species and/or designated critical
240		habitat, or state-listed terrestrial species anticipated as a result of the Project?
241	A.	No impacts to listed species or designated critical habitat are anticipated as a result of the
242		Project. As discussed in Sections 9.2.2.4 and 9.2.2.5 of the Application, potentially
243		suitable habitat for listed terrestrial species is absent (i.e., red knot and northern river
244		otter) or limited (i.e., northern long-eared bat, Dakota skipper, and Poweshiek
245		skipperling) within the Project Area. Further, species-specific surveys conducted for the

northern long-eared bat (Appendix I of the Application), and federally listed skippers
(Appendix D of the Application) were negative. Therefore, impacts on federally and
state-listed species are not anticipated. Because the closest designated critical habitat is
three miles from the Project Area, no impacts to critical habitat are anticipated from the
Project.

251 Q. Are any impacts to bald or golden eagles anticipated as a result of the Project?

A. Based on the results of eagle nest surveys and avian use point count surveys, use of the
Project by both bald and golden eagles (*Aquila chrysaetos*) are expected to be low and no
impacts to bald or golden eagles are anticipated as a result of the Project. The closest
known bald eagle nest is 5.4 miles southeast of the Project Area (Appendix G of the
Application), and only two bald eagles and two golden eagles were observed during the
178 hours of avian use point count surveys conducted between April 2018 and March
2019 (Appendix F of the Application).

259 Q. What measures will Tatanka Ridge implement to avoid or minimize impacts to 260 wildlife?

As described above, the Project has been sited to avoid or minimize impacts to high 261 A. 262 quality or sensitive habitats (e.g., forest, Native Undisturbed Grasslands, Dakota 263 Skipper/Poweshiek Skipperling Habitat, wetlands), thereby minimizing impacts to 264 terrestrial wildlife that may occur within these habitats. Following construction, 265 temporarily disturbed areas will be regraded to pre-construction conditions in areas where 266 the native soil has been removed, and disturbed areas will be reseeded with a weed-free 267 native plant seed mixture at an appropriate application rate or in accordance with 268 landowner requests and as available. Prior to construction, Tatanka Ridge will prepare a

269 Bird and Bat Conservation Strategy ("BBCS") to be implemented during operation of the 270 Project. The BBCS will include standards for minimizing impacts to avian and bat 271 species during operation of the Project and be consistent with the WEG. It will include a 272 description of commitments to Project siting, construction practices and design standards, 273 operational practices, permit compliance, and construction and operation worker training. 274 These are discussed in greater detail in Section 9.2.2 of the Application. 275 0. Are aquatic ecosystems present in the Project Area and, if so, what measures will 276 Tatanka Ridge employ to avoid or minimize potential impacts? 277 A. Yes. Aquatic resources present in the Project Area are described in detail in Section 8.2.1 278 of the Application. Based on the USGS National Hydrology Database, USFWS National 279 Wetlands Inventory data, and wetland/waterbody delineations, waterbodies within the 280 Project Area are largely intermittent streams and wetlands are almost exclusively composed of small, freshwater emergent wetlands, the majority of which are within the 281 282 eastern portion of the Project Area. Given the Project's location in eastern South Dakota, 283 many of the wetlands within the Project are digressional wetlands known as prairie potholes and may be cultivated during dryer periods of the year. 284 285 286 In accordance with the United States Army Corps of Engineers' Nationwide Permit General Condition No. 23, the Project will avoid and minimize adverse impacts to waters 287 288 of the United States to the maximum extent practicable; avoidance and minimization 289 measures designed to minimize impacts to wetlands and waterbodies will also 290 substantially reduce impacts to wildlife that resides within aquatic ecosystems. Tatanka 291 Ridge has avoided siting turbines in both wetlands and waterbodies. When feasible,

292 access roads, collection lines, and other Project facilities have been sited in upland areas. 293 Where wetlands and waterbodies must be intersected, Tatanka Ridge will either use a 294 trenchless technique or minimize impacts to Nationwide Permit thresholds to the extent 295 practical (discussed in additional detail in Section 8.2.2 of the Application). 296 297 The primary potential for impacts to aquatic ecosystems would be from a temporary 298 increase in sedimentation or total suspended solids due to soil erosion during construction 299 activities. The Project will be required to develop and implement a Project-specific 300 Stormwater Pollution Prevention Plan, which will describe Best Management Practices 301 for erosion and sedimentation control. Such measures may include installation and 302 maintenance of silt fences, straw wattles, water bars, vegetative buffers, and other 303 measures to control stormwater run-on and runoff to mitigate erosion and sedimentation. 304 With the implementation of these measures, impacts to aquatic ecosystems associated 305 with sedimentation or total suspended solids are expected to be minimal. 306 Are any federally or state-listed aquatic species, or designated critical habitat **Q**. present within the Project Area? 307

A. Potentially. There is a moderate likelihood of the federally endangered Topeka shiner
occurring within the Project Area. Although this species has not been documented within
the Project Area, it has been documented near the Project in Peg Munky Run, North Deer
Creek, and Hidewood Creek.

312

313 There is moderate potential for the northern redbelly dace (*Chrosomus eos*), a state-

314 threatened species, to occur within the Project Area. The northern redbelly dace was

315		documented within an unnamed intermittent stream in the southeastern corner of the
316		Project in 2002, and has been documented near the southwestern portion of the Project
317		Area in Peg Munky Run as recently as 2012.
318		
319		There is very low potential for the banded killifish (Fundulus diaphanus), a state-
320		endangered species, to occur in the Project Area. Although it historically occurred in
321		Deuel County, this species has not been documented in the county since 2000.
322	Q.	Are any impacts to federally or state-listed aquatic species, or designated critical
323		habitat anticipated as a result of the Project?
324	A.	No. As described in detail in Section 10.2.1 of the Application, Tatanka Ridge will
325		implement numerous measures to avoid impacts to federally and state-listed aquatic
326		species. Due to the moderate likelihood for waterbodies within the western portion of the
327		Project Area (within the Middle Big Sioux watershed) to contain the federally
328		endangered Topeka shiner, no in-water activities will occur within the Middle Big Sioux
329		watershed. Further, disturbance will not occur within 50 feet of waterbodies where listed
330		species have been documented in or near the Project. If intermittent streams are
331		completely dry at the time of construction activities, crane paths may cross these features.
332		If this occurs, the measures described in the USFWS 2014 Programmatic Biological
333		Opinion for the Issuance of Selected Nationwide Permits Impacting the Topeka shiner in
334		South Dakota will be implemented, as follows:
335		1. Erosion and sediment control measures will be installed, monitored, and
336		maintained.
337		2. Impacts to both the dry waterbody as well as riparian and grassland habitat will

be minimized to the exte	nt feasible.
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- 339 3. The site will be restored to pre-disturbance condition.
- 340 4. Manual revegetation of all disturbed areas will be initiated immediately following
- 341 construction, or at the first opportunity if outside of the growing season. If outside of the
- 342 growing season, erosion and sediment control measures will be monitored and
- 343 maintained until the site is permanently stabilized.
- 344 5. Revegetated areas will be monitored, and any failures addressed, until the site is345 permanently stabilized.
- 346 6. Livestock and machinery will both be excluded from the site following
- 347 disturbance until the site is permanently stabilized.
- 348
- 349 With the implementation of these measures, impacts to the Topeka shiner, northern
- redbelly dace, and banded killifish due to the Project are not anticipated.
- 351 IV. CONCLUSION
- 352 Q. Does this conclude your direct testimony?
- 353 A. Yes.
- 354
- 355 Dated this 17th day of June, 2019.
- 356 <u>/s/</u>
- 357 Janelle Rieland, for TATANKA RIDGE WIND, LLC