



BISON IV OPERATING, LLC

BAJA WEST OGD

CLOUDBREAK, MAVERICKS, RINCON LOCATIONS

ALTERNATIVE LOCATION ANALYSIS

INTRODUCTION

Bison IV Operating, LLC (Bison) is providing this Alternative Location Analysis (ALA) Narrative for the Baja West OGDG which consists of three (3) horizontal drilling pads. The three (3) locations, Cloudbreak, Mavericks, and Rincon, will be used to develop the Baja West OGDG which covers a development area of approximately 7,989.74 acres. This ALA is required because the three (3) proposed Oil and Gas Locations met criteria 304.b.(2).B.viii for High Priority Habitat (HPH). Additionally, the Rincon Location met criteria 304.b.(2).B.i for Residential Building Unit (RBU), therefore this ALA is being provided.

Cloudbreak is located in the SE ¼ of the SW ¼ of Section 22, Township 8 North, Range 62 West, 6th P.M., in Weld County, CO. The Cloudbreak Pad will utilize six (6) horizontal wellbores to develop the minerals within the Baja West OGDG. Mavericks is located in the NW ¼ of the NW ¼ of Section 31, Township 8 North, Range 61 West, 6th P.M., in Weld County, CO. The Mavericks Pad will utilize sixteen (16) horizontal wellbores to develop the minerals within the Baja West OGDG. Rincon is located in the NE ¼ of the NE ¼ of Section 1, Township 7 North, Range 62 West, 6th P.M., in Weld County, CO. The Rincon Pad will utilize six (6) horizontal wellbores to develop the minerals within the Baja West OGDG.

Bison began the ALA process by identifying potential sites within and adjacent to the Drill Spacing Units (DSU) from which the targeted minerals in the DSU can be accessed. Additional alternative locations were suggested by Weld County and Colorado Parks and Wildlife (CPW) during the 1041WOGLA pre-application meeting. The alternative locations identified by Bison and suggested by Weld County and CPW have been evaluated in this ALA. After analyzing the seven (7) potential sites from which the targeted minerals can be accessed, Bison determined the proposed locations to be the most viable and preferred as it provided fewer or equivalent adverse impacts to the alternatives analyzed while also allowing feasible mineral development within the entire DSUs. Bison did not identify any technically feasible alternative locations that more successfully avoided potential impacts to receptors. As reflected in the analysis that follows, the proposed siting of the Baja West Locations best achieves the development of the targeted minerals while avoiding and minimizing adverse impacts to health, safety, welfare, wildlife, and the environment.

LOCATIONS CONSIDERED

Following Bison’s evaluation of possible drilling locations outlined above, seven (7) potentially viable sites were identified. The legal description of the proposed Cloudbreak, Mavericks, Rincon and each alternative location considered are shown in the table below, however, a detailed narrative of the location analysis follows later in the plan. The ‘Location Name’ included in Table 1 corresponds with ALA Maps attached in Appendix A.

TABLE 1

Location	Legal Description
Cloudbreak Pad	SE ¼ of the SW ¼, Section 22, Township 8 North, Range 62 West, 6 th P.M., Weld County, CO
Mavericks Pad	NW ¼ of the NW ¼, Section 31, Township 8 North, Range 61 West, 6 th P.M., Weld County, CO
Rincon Pad	NE ¼ of the NE ¼, Section 1, Township 7 North, Range 62 West, 6 th P.M., Weld County, CO
ALT 1	SW ¼ of the SW ¼, Section 22, Township 8 North, Range 62 West, 6 th P.M., Weld County, CO
ALT 2	SE ¼ of the SE ¼, Section 22, Township 8 North, Range 62 West, 6 th P.M., Weld County, CO

ALT 3	SE ¼ of the SE ¼, Section 24, Township 8 North, Range 62 West, 6 th P.M., Weld County, CO
ALT 4	SE ¼ of the SE ¼, Section 36, Township 8 North, Range 62 West, 6 th P.M., Weld County, CO
ALT 5	SE ¼ of the SE ¼, Section 35, Township 8 North, Range 62 West, 6 th P.M., Weld County, CO
ALT 6	NE ¼ of the NE ¼, Section 1, Township 7 North, Range 62 West, 6 th P.M., Weld County, CO
ALT 7	NW ¼ of the NW ¼, Section 13, Township 7 North, Range 62 West, 6 th P.M., Weld County, CO

PROPOSED LOCATION: Cloudbreak Pad

Legal Description: SESW, Section 22, T8N, R62W, 6th P.M.
 Lat/Long: 40.641319/-104.305909
 Tier: III-A

The Cloudbreak Pad, located in the SE ¼ of the SW ¼, Section 22, Township 8 North, Range 62 West, 6th P.M., and will produce the minerals located in Sections 27, and 34 of Township 8 North, Range 62 West, 6th P.M. The location is within unincorporated Weld County. The closest municipality is the Town of Briggsdale, which is approximately one (1) mile away. Bison’s analysis identified the following:

Disadvantages and Triggered ALA Criteria

- The Location is within Pronghorn Winter Concentration Area
 - Rule 304.b.(2).B.viii: The proposed Oil and Gas Location is within High Priority Habitat and the Operator did not obtain a waiver from CPW through a pre-application consultation.
- Approximately 0.5 miles of new access road is needed but the road is located near Highway 14 to minimize habitat fragmentation.
- The Location is within 4,611 feet of a School Facility and Child Care Center.

Advantages:

- The Location is not within 2,000 feet of RBU.
- The Location is not within one (1) mile of High Occupancy Building Unit (HOBV).
- The are no Designated Outside Activity Areas (DOAA) within one (1) mile.
- The Location is not within 5,280 feet of a Disproportionately Impacted Community (DIC) boundary.
- The Location is not within an Overlay District: Geologic Hazard Area, Floodplain, Floodway, MS4 or Airport Overlay.
- The proposed Location is not within a surface water supply area or within 2,640 feet of a Public Water System supply well that is completed in a Type III Aquifer or is a groundwater under the direct influence of surface water well as defined in Rule 411.b(1).
- This Location allows for the development of the entire 2-mile DSU from a single surface location.
- While the Location is within HPH, the entire disturbance area is within a ¼ mile of Highway 14 which experiences significant noise and light impacts from traffic indicating the Location is in less utilized habitat.
- The Location is close to the southern section line and directly adjacent to Highway 14, consolidating disturbance to existing habitat fragmentation.

- There is nearby pipeline infrastructure to this Location where gas, oil, and produced water pipeline can be readily connected to the facility allowing for a significant reduction in truck traffic during the flowback and production phases of operation.
- The access road promotes safe entrance and egress to the site and complies with local regulations.
- The access road will be located near Highway 14, which minimizes wildlife habitat fragmentation.
- The access road reduces agricultural fragmentation.
- The surface owner at this Location encourages development and this location was selected in conjunction with the landowner preferences.
- The topography at this Location is advantageous for drainage and necessitates a smaller detention pond resulting in less long-term disturbance.
- Previously permitted and reviewed by Weld County and ECMC under the Silver Appleyard Location.

Potential impacts to health, safety, welfare, wildlife and the environment related to the development of this location:

There are potential impacts from the oil and gas development operation to the HPH, including impacts from light, noise, and dust. Each of these impacts, however, will be addressed through BMPs and site-specific mitigation measures that will avoid or minimize the impacts. There are no RBU's HOBUs, School Facilities, Child Care Centers, DOAAs, or DICs within 2,000 feet of the site so concerns about the impacts associated with those cultural features are anticipated to be minimal. Aside from being located inside HPH for Pronghorn Winter Concentration Area, there are no other major environmental receptors or water features, such as wetlands, within 2,000 feet of the pad.

Permitting Considerations

- A Surface Use Agreement (SUA) has been executed with the Surface Owner.
- A 1041 WOGLA will be submitted concurrently with the OGDG application.
- A new access permitted for oil and gas use would be obtained.
- During the 1041WOGLA Pre-application meeting held on October 2, 2024, the proposed Cloudbreak Location and many alternatives were reviewed by Weld County, ECMC Representatives (Rebecca Treitz, Sierra Focht, Renee Wild), and CPW Representatives (Brandon Marette and Lexi Hamous-Miller). No participant at the meeting identified anything that would prevent Bison from submitting an application for the proposed Cloudbreak location, nor did they identify anything that would prohibit such development.

Additional Information and Other Considerations

The list below details additional information and BMPs that will allow Bison to avoid, minimize, or mitigate the potential impacts created by the proposed Location. For a complete list of BMPs, please see the specific plans included in the Baja West OGDG submittal specific to the Cloudbreak Location.

- Utilize a quiet frac fleet for completion operations.
- If required by Weld County to comply with noise regulations, Bison will install sound walls for pre-production operations that occur during the Pronghorn Winter Concentration Area HPH seasonal timing window (January 1 – April 30).
- Inform and educate employees and contractors on wildlife conservation practices, including illegal hunting and no harassment or feeding of wildlife.
- Fresh water will be piped to the Location via lay flat piping which will reduce the number of water-hauling truck traffic during the completions phase.

- Bison will utilize modernized flowback operations which routes the flowback water to the production facility where produced water is disposed via pipelines. This eliminates the need for associated flowback disposal hauling truck traffic.
- Pipeline takeaway for oil, natural gas, and produced water will be utilized during the production phase of this facility which will significantly reduce the amount of truck traffic associated with this site during day-to-day operations over the life of this Location.
- Conduct surveys two (2) weeks prior to all proposed disturbances according to CPW Act (BGEPA and the Endangered Species Act (ESA) laws in protection of active nesting activities, observe CPW requested protective buffers for active nesting species, and consult with CPW as warranted.
- Water will be used for dust suppression along the access roads during all phases of pre-production operations when necessary to limit fugitive dust.
- During the production phase, Bison anticipates minimal to no noise, dust, and light impacts to nearby wildlife.

ALTERNATIVE LOCATION 1: ALT 1

Legal Description: SESW, Section 22, Township 8 North, Range 62 West, 6th P.M., Weld County, CO

Lat/Long: 40.64063/-104.31455

Tier: III-B

Alternative Location 1 is in the SW $\frac{1}{4}$ of the SW $\frac{1}{4}$, Section 22, Township 8 North, Range 62 West, 6th P.M. is approximately 1,000 feet west of the proposed Cloudbreak location. Bison's Cloudbreak alternative analysis identified the following:

Disadvantages and Triggered ALA Criteria

- The Location is within Pronghorn Winter Concentration Area
 - Rule 304.b.(2).B.viii: The proposed Oil and Gas Location is within High Priority Habitat and the Operator did not obtain a waiver from CPW through a pre-application consultation.
- The step outs associated with this Location would require nearly one (1) mile step outs to reach the eastern side of the DSU. The lengthy step outs associated with this alternative location create additional torque and drag during drilling which significantly increases the risk of complications and losing the wellbore. The increased risks associated with drilling these longer step outs are not desirable when compared to the proposed Cloudbreak Location and would leave the eastern DSU minerals stranded. Additionally, the longer step outs would result in longer occupations for drilling and completions and Bison prefers to limit the duration on site when in a High Priority Habitat (HPH).
- The access point on Highway 14 significantly increases traffic safety concerns. Weld County does not maintain County Road 79 north of Highway 14.
- The location would be closer to the Town of Briggsdale, HOBUs, School Facilities, and Child Care Centers by approximately 1,700 feet than the proposed Cloudbreak Location.
- A SUA has been executed with the Surface Owner for a different development plan (Proposed Cloudbreak Pad). An amendment may be required.

Advantages:

- The Location is not within one (1) mile of a DOAA or a DIC boundary.
- The Location is not within 2,000 feet of a RBU, HOBUs, School Facilities or Child Care Centers.
- The Location is not within an Overlay District: Geologic Hazard Area, Floodplain, Floodway, MS4 or Airport Overlay.

Potential impacts to health, safety, welfare, wildlife, and the environment related to the development of this location:

There are potential impacts from the oil and gas development operations to the HPH (Pronghorn Winter Concentration Area), including impacts from light, noise, and dust. The access point on Highway 14 increases traffic safety concerns. There are no major environmental receptors or water features within 2,000 feet of this Location, but the mapped hydrology features in the area are closer to this site than the proposed Cloudbreak Location. Bison would avoid, minimize, and mitigate impacts through BMPs and site-specific mitigation measures, but the closer proximity to HOBUs, School Facilities, Child Care Centers, and the Floodplain would result in more impacts to health, safety, welfare, wildlife, and the environment when compared to the proposed location.

Permitting Considerations

- A SUA has been executed with the Surface Owner for a different development plan (proposed Cloudbreak Location). An amendment would be required.
- An OGDG would be required.
- A 1041 WOGLA would be required.
- The wells would need to be permitted with ECMC and BLM.
- A CDOT access permit would be required.

Conditions or factors that make the location unavailable:

Through Bison's evaluation, Alternative 1 was deemed as a location that was not viable due to the inability to develop the minerals on the eastern side of the DSU as well as the concern related to traffic safety for the access to the location off Highway 14.

ALTERNATIVE LOCATION 2: ALT 2

Legal Description: SESE, Section 22, T8N, R62W, 6th P.M. Weld County, CO

Lat/Long: 40.64130/-104.29886

Tier: IV-B

Alternative Location 2 is located in SE $\frac{1}{4}$ of the SE $\frac{1}{4}$, Section 22, Township 8 North, Range 62 West, 6th P.M., and is approximately 1,000 feet east of the proposed Cloudbreak location. Bison's Cloudbreak alternative analysis identified the following:

Disadvantages:

- The Location is within Pronghorn Winter Concentration Area
 - Rule 304.b.(2).B.viii: The proposed Oil and Gas Location is within High Priority Habitat and the Operator did not obtain a waiver from CPW through a pre-application consultation.
- This Location is much closer to an RBU (approximately 747 feet) as compared to the Proposed Location which is over 2,000 feet from an RBU.
 - Rule 304.b.(2).B.i: The proposed Working Pad Surface is within 2,000 feet of 1 or more Residential Building Unit or High Occupancy Building Units;
 - An Informed Consent Letter would be required from the RBU within 2,000 feet of the alternative location.
- The step outs associated with this Location would require nearly one (1) mile step outs to reach the western side of the DSU. The lengthy step outs associated with this alternative location create additional torque and drag during drilling which significantly increases the risk of complications and losing the wellbore. The increased risks associated with drilling these longer step outs are not desirable when

compared to the proposed Cloudbreak Location and would leave the western DSU minerals stranded. Additionally, the longer step outs would result in longer occupations for drilling and completions and Bison prefers to limit the duration on site when in a HPH.

- A SUA has been executed with the Surface Owner for a different development plan (preferred Cloudbreak Pad). An amendment may be required.

Advantages:

- The Location is not within one (1) mile of HOBUs, School Facilities, Child Care Centers, Designated Outside Activity Areas (DOAA), or a DIC boundary.
- The Location is not within an Overlay District: Geologic Hazard Area, Floodplain, Floodway, MS4 or Airport Overlay.
- Approximately 470 feet of new access road is needed which is less than the proposed location.

Potential impacts to health, safety, welfare, wildlife, and the environment related to the development of this location:

There are potential impacts from the oil and gas development operations to the RBU that is 747 feet to the southeast and to HPH (Pronghorn Winter Concentration Area), including impacts from light, noise, and dust. Besides the RBU and HPH, there are no major receptors or water features within 2,000 feet of this Location. Bison would avoid, minimize, and mitigate impacts through BMPs and site-specific mitigation measures, but the closer proximity to the RBU would result in more impacts to health, safety, welfare, wildlife, and the environment when compared to the proposed location.

Permitting Considerations

- A SUA has been executed with the Surface Owner for a different development plan (proposed Cloudbreak). An amendment would be required.
- An OGD would be required.
- A 1041 WOGLA would be required.
- The wells would need to be permitted with ECMC and BLM.

Conditions or factors that make the location unavailable:

Through Bison's evaluation, Alternative 2 was deemed as a location that was not viable due to the inability to develop the minerals on the western side of the DSU as well as the concern related to proximity to the RBU to the southeast.

ALTERNATIVE LOCATION 5: ALT 5

Legal Description: SESE, Section 35, T8N, R62W, 6th P.M., Weld County, CO

Lat/Long: 40.61260/-104.28783

Tier: III-B

Alternative Location 5 was identified by Weld County during the WOGLA pre-application process and was considered in the Cloudbreak alternative analysis. This alternative is located in SE ¼ of the SE ¼, Section 35, Township 8 North, Range 62 West, 6th P.M., and is approximately two (2) miles southeast of the proposed Cloudbreak Location. Bison's analysis identified the following:

Disadvantages and Triggered ALA Criteria

- The Location is within Pronghorn Winter Concentration Area

- Rule 304.b.(2).B.viii: The proposed Oil and Gas Location is within High Priority Habitat and the Operator did not obtain a waiver from CPW through a pre-application consultation.
- The step outs associated with this Location would require nearly 1.5-mile step outs to reach the western side of the Cloudbreak DSU. The lengthy step outs associated with this alternative location create additional torque and drag during drilling which significantly increases the risk of complications and losing the wellbore. The increased risks associated with drilling these longer step outs are not desirable when compared to the proposed location and would leave the western DSU minerals stranded. Additionally, the longer step outs would result in longer occupations for drilling and completions and Bison prefers to limit the duration on site when in HPH.
- Over 2.5 miles of additional pipeline would be required to connect this Location to the existing gathering infrastructure. All of the disturbances associated with installing the additional 2.5 miles of pipeline would be in HPH.
- The haul route would require 3.25 miles along an unpaved road which significantly increases dust concerns.
- Access to the Location will require approximately 200 feet of new disturbance.
- There is a mapped Freshwater Emergent Wetland area approximately 321 feet west from this Location.
- Bison has a Weld County permit (WOGLA19-0042) that was previously permitted by Mallard that is set to expire May 23, 2025. This Location has not been built and will not be constructed prior to the expiration date. Weld County would require a new 1041 WOGLA Permit for this Location.
- The Form 2A associated with this site has expired and Bison filled a Sundry to Abandoned the Location.

Advantages:

- The Location is not within one (1) mile of a HOBUS, School Facilities, Child Care Centers, DOAA, or a DIC boundary.
- The Location is not within 2,000 feet of a RBU.
- The Location is not within an Overlay District: Geologic Hazard Area, Floodplain, Floodway, MS4 or Airport Overlay.
- The Location is closer to an existing oil and gas facility (not owned by Bison) than the Proposed Location which may reduce habitat fragmentation.

Potential impacts to health, safety, welfare, wildlife, and the environment related to the development of this location:

There are potential impacts from the oil and gas development operations to HPH (Pronghorn Winter Concentration Area), including impacts from light, noise, and dust. Bison would avoid, minimize, and mitigate impacts through BMPs and site-specific mitigation measures, but the increased number of RBU's within one (1) mile and the water feature 321' west of the Location would result in more impacts to health, safety, welfare, wildlife, and the environment when compared to the proposed Cloudbreak Location.

Permitting Considerations

- Bison has not obtained a Surface Use Agreement for this Location.
- A new 1041 WOGLA would be required.
- An OGDPA would be required.
- The wells would need to be permitted with ECOM and BLM.

Conditions or factors that make the location unavailable:

Through Bison's evaluation, Alternative 5 was deemed as a location that was not viable. Due to the inability to develop the minerals on the western side of the DSU, the drainage concerns from the proximity

to the wetland area west of the location, the increased number of RBU within one (1) mile of the alternative location, and the disturbance associated with approximately 2.5 miles of additional pipeline would result in impacts to health, safety, welfare, wildlife, and the environment that are far greater when compared to the proposed location.

PROPOSED LOCATION: Mavericks Pad

Legal Description: NWNW, Section 31, T8N, R61W, 6th P.M.

Lat/Long: 40.623560/-104.256837

Tier: III-A

The Mavericks Pad, located in the NW $\frac{1}{4}$ of the NW $\frac{1}{4}$, Section 31, Township 8 North, Range 61 West, 6th P.M., and will produce the minerals located in Sections 25, 24, and 13 of Township 8 North, Range 62 West, 6th P.M, Sections 31, 30, 19, and 18 of Township 8 North, Range 61 West, 6th P.M, and Section 6 of Township 7 North, Range 61 West, 6th P.M. The location is within unincorporated Weld County. The closest municipality is the Town of Briggsdale, which is approximately 3.5 miles west. Bison's analysis identified the following:

Disadvantages and Triggered ALA Criteria

- The Location is within Pronghorn Winter Concentration Area
 - Rule 304.b.(2).B.viii: The proposed Oil and Gas Location is within High Priority Habitat and the Operator did not obtain a waiver from CPW through a pre-application consultation.
- Approximately 1.1 miles of existing access road will need to be improved but the road is located near other oil and gas developments to minimize habitat fragmentation.

Advantages:

- The Location is not within one (1) mile of a RBU.
- The Location is not within one (1) mile of a HOBV.
- The Location is not within one (1) mile of a School Facility.
- The Location is not within one (1) mile of a Child Care Center.
- There are no DOAA within one (1) mile of the Proposed Location.
- The Location is not within one (1) mile of a DIC boundary.
- The Location is not within an Overlay District: Geologic Hazard Area, Floodplain, Floodway, MS4 or Airport Overlay.
- The proposed Location is not within a surface water supply area or within 2,640 feet of a Public Water System supply well that is completed in a Type III Aquifer or is a groundwater under the direct influence of surface water well as defined in Rule 411.b(1).
- This Location allows for the development of the entire 3-mile DSU and 2-mile DSU from a single surface location.
- The Location is situated in the northwest corner of the section and near an existing road, reducing fragmentation of habitat and agricultural operations.
- There is nearby pipeline infrastructure to this Location where gas, oil, and produced water pipeline can be readily connected to the facility allowing for a significant reduction in truck traffic during the flowback and production phases of operation.
- The access road promotes safe entrance and egress to the site and complies with local regulations.
- The Surface Owner at this Location encourages development and this location was selected in conjunction with the landowner preferences.

- The topography at this Location is advantageous for drainage and necessitates a smaller detention pond resulting in less long-term disturbance.

Potential impacts to health, safety, welfare, wildlife and the environment related to the development of this location:

There are potential impacts from oil and gas development operations to the HPH, including impacts from light, noise, and dust. Each of these impacts, however, will be addressed through BMPs and site-specific mitigation measures that will avoid or minimize the impacts. There are no RBUs, HOBUs, School Facilities, Child Care Centers, DOAAs, or DICs within one (1) mile of the Location so concerns about the impacts associated with those cultural features are anticipated to be minimal. Aside from being located inside HPH for Pronghorn Winter Concentration Area, there are no other major environmental receptors or water features, such as wetlands, within 2,000 feet of the pad.

Permitting Considerations

- A SUA has been executed with the Surface Owner.
- A 1041 WOGLA will be submitted concurrently with the OGDG application.
- A new access permitted for oil and gas use would be obtained.
- During the 1041WOGLA Pre-application meeting held on October 2, 2024, the proposed Mavericks Location and many alternatives were reviewed by Weld County, ECMC Representatives (Rebecca Treitz, Sierra Focht, Renee Wild), and CPW Representatives (Brandon Marette and Lexi Hamous-Miller). No participant at the meeting identified anything that would prevent Bison from submitting an application for the proposed Mavericks Location, nor did they identify anything that would prohibit such development.

Additional Information and Other Considerations

The list below details additional information and BMPs that will allow Bison to avoid, minimize, or mitigate the potential impacts created by the proposed Location. For a complete list of BMPs, please see the specific plans included in the Baja West OGDG submittal specific to the Mavericks Location.

- Utilize a quiet frac fleet for completion operations.
- If required by Weld County to comply with noise regulations, Bison will install sound walls for pre-production operations that occur during the Pronghorn Winter Concentration Area HPH seasonal timing window (January 1 – April 30).
- Inform and educate employees and contractors on wildlife conservation practices, including illegal hunting and no harassment or feeding of wildlife.
- Fresh water will be piped to the Location via lay flat piping which will reduce the number of water-hauling truck traffic during the completions phase.
- Bison will utilize modernized flowback operations which routes the flowback water to the production facility where produced water is disposed via pipelines. This eliminates the need for associated flowback disposal hauling truck traffic.
- Pipeline takeaway for oil, natural gas, and produced water will be utilized during the production phase of this facility which will significantly reduce the amount of truck traffic associated with this site during day-to-day operations over the life of this Location.
- Conduct surveys two (2) weeks prior to all proposed disturbances according to CPW Act (BGEPa and the Endangered Species Act (ESA) laws in protection of active nesting activities, observe CPW requested protective buffers for active nesting species, and consult with CPW as warranted.
- Water will be used for dust suppression along access roads during all phases of pre-production operations when requested by the surface owner.

- During the production phase, Bison anticipates minimal to no noise, dust, and light impacts to nearby wildlife.

ALTERNATIVE LOCATION 3: ALT 3

Legal Description: SESE, Section 24, T8N, R62W, 6th P.M. Weld County, CO

Lat/Long: 40.641029/-104.263624

Tier: III-B

Alternative Location 3 is located in SE ¼ of the SE ¼, Section 24, Township 8 North, Range 62 West, 6th P.M. and is approximately one (1) mile northwest of the proposed Mavericks location. Bison's Mavericks alternative analysis identified the following:

Disadvantages:

- The Location is within Pronghorn Winter Concentration Area
 - Rule 304.b.(2).B.viii: The proposed Oil and Gas Location is within High Priority Habitat and the Operator did not obtain a waiver from CPW through a pre-application consultation.
- This alternative location would require the DSU spacing to be reconfigured to consist of five (5) 1-mile laterals, eleven (11) 2-mile laterals and six (6) 3-mile laterals. The changes would be highly inefficient and require an additional six (6) wells resulting in a larger disturbance area and longer occupations for drilling and completions which Bison prefers to limit the duration on site when in a HPH.
- Step outs associated with the eastern wells are approximately 1,900 feet longer than the step outs associated with the proposed location. The increased risks associated with drilling these longer step outs are not desirable when compared to the proposed location.
- This Location has an existing Form 2A, approved APDs, and approved WOGLA, but the APDs and WOGLA will expire before operations are proposed for this site.
 - The Location has been interim reclaimed, and the Surface Owner is using the land for agricultural operations.

Advantages:

- The Location is not within one (1) mile of HOBUs, School Facilities, Child Care Centers, DOAA, or a DIC boundary.
- The Location is not within 2,000 feet of a RBU.
- The Location is not within an Overlay District: Geologic Hazard Area, Floodplain, Floodway, MS4 or Airport Overlay.
- Access to the Location will utilize approximately 200 feet of existing oil and gas access road.

Potential impacts to health, safety, welfare, wildlife, and the environment related to the development of this location:

There are potential impacts from the oil and gas development operations to HPH (Pronghorn Winter Concentration Area), including potential impacts from light, noise, and dust. Bison would avoid, minimize, and mitigate impacts through BMPs and site-specific mitigation measures, but the presence of HPH would result in more impacts to health, safety, welfare, wildlife, and the environment when compared to the proposed location.

Permitting Considerations

- A 1041 WOGLA has been approved for this Location but has already been granted an extension and is set to expire before Bison has operations scheduled for this project. A new 1041 WOGLA Application would be required.
- The approved APDs would expire before operations are scheduled for this project.
- The Location has already been interim reclaimed so a Sundry Notice would be required.
- A SUA has been executed with the surface owner for a different development plan. An amendment may be required.

Conditions or factors that make the location unavailable:

Through Bison's evaluation, Alternative 3 was deemed as a location that was not viable. Due to the inefficiencies required to develop the minerals by changing the DSUs, increasing well count, creating a larger disturbance area and longer drilling and completions operations to accommodate the step outs and additional wells, would result in impacts to health, safety, welfare, wildlife, and the environment that are far greater when compared to the proposed location.

ALTERNATIVE LOCATION 4: ALT 4

Legal Description: SESE, Section 36, T8N, R62W, 6th P.M., Weld County, CO

Lat/Long: 40.61515/-104.26330

Tier: IV-B

Alternative Location 4 was identified by Weld County during the WOGLA pre-application process and was considered in the Mavericks alternative analysis. Alternative Location 4 is in the SE ¼ of the SE ¼, Section 36, Township 8 North, Range 62 West, 6th P.M. Bison's analysis identified the following:

Disadvantages and Triggered ALA Criteria

- The Location is within Pronghorn Winter Concentration Area
 - Rule 304.b.(2).B.viii: The proposed Oil and Gas Location is within High Priority Habitat and the Operator did not obtain a waiver from CPW through a pre-application consultation.
- The step outs associated with the wells drilling north on this alternative location are approximately 0.5 miles longer than the step outs associated with the proposed location. Additionally, the proposed 2 mile laterals that are drilling south would have lengthy step outs associated with this Alternative Location and create additional torque and drag during drilling which significantly increases the risk of complications and losing the wellbore. The increased risks associated with drilling these longer step outs are not desirable when compared to the proposed location. The longer step outs would result in longer occupations for drilling and completions and Bison prefers to limit the duration on site when in a HPH.
- Bison has not obtained a SUA for this Location.
- This Location is much closer to an RBU (approximately 1,328 feet) as compared to the Proposed Mavericks Location which is over a mile from an RBU.
- There is a mapped Freshwater Emergent Wetland within the Working Pad Surface of this alternative location.
- Access to the location will require approximately 843 feet of new disturbance for the private oil and gas access road and improve approximately, 500 feet of the existing private oil and gas access road.

Advantages:

- The Location is not within one (1) mile of a HOBUS, School Facilities, Child Care Centers, DOAA, or a DIC boundary.

- The Location is not within an Overlay District: Geologic Hazard Area, Floodplain, Floodway, MS4 or Airport Overlay.
- Access to the Location will utilize approximately 2041 feet of existing oil and gas access road.

Potential impacts to health, safety, welfare, wildlife, and the environment related to the development of this location:

There are potential impacts from the oil and gas development operations to the RBU that is 1,328 feet to the southwest and to the HPH (Pronghorn Winter Concentration Area), including impacts from light, noise, and dust. There is a water feature within this proposed alternative location. Bison would avoid, minimize, and mitigate impacts through BMPs and site-specific mitigation measures but the closer proximity to the RBU would result in more impacts to health, safety, welfare, wildlife, and the environment when compared to the proposed Mavericks Location.

Permitting Considerations

- Bison has not obtained a SUA for this Location.
- A 1041 WOGLA would be required.
- An OGDG would be required.
- The wells would need to be permitted with ECMC.

Conditions or factors that make the location unavailable:

Through Bison's evaluation, Alternative 4 was deemed as a location that was not viable. Due to the inefficiencies required to develop the minerals, longer drilling and completions operations to accommodate the step outs, proximity to the RBU, and drainage concerns from the wetland area located within the Working Pad Surface, this alternative would result in impacts to health, safety, welfare, wildlife, and the environment that are far greater when compared to the proposed Mavericks Location.

PROPOSED LOCATION: Rincon Pad

Legal Description: NENE, Section 1, T7N, R62W, 6th P.M.

Lat/Long: 40.607919/-104.264084

Tier: III-A

The Rincon Pad, located in the NE ¼ of the NE ¼, Section 1, Township 7 North, Range 62 West, 6th P.M., and will produce the minerals located in Sections 1, 12, and 13 of Township 7 North, Range 62 West, 6th P.M. The location is within unincorporated Weld County. The closest municipality is the Town of Briggsdale, which is approximately 3.5 miles northwest. Bison's analysis identified the following:

Disadvantages and Triggered ALA Criteria

- The Location is within Pronghorn Winter Concentration Area
 - Rule 304.b.(2).B.viii: The proposed Oil and Gas Location is within High Priority Habitat and the Operator did not obtain a waiver from CPW through a pre-application consultation.
- The Location is within 2,000 feet of a RBU (1,551 feet northwest).
 - Rule 304.b.(2).B.i: The proposed Working Pad Surface is within 2,000 feet of 1 or more Residential Building Unit or High Occupancy Building Units;
 - An Informed Consent Letter has been acquired from the RBU within 2,000 feet of the Working Pad Surface and is attached to the 2A.

- Approximately 296 feet of existing access road will need to be improved, along with 443 of new access road will be required to access the proposed Rincon Location but the road is located near other oil and gas developments to minimize habitat fragmentation.

Advantages:

- The Location is not within one (1) mile of a HOBUE.
- The Location is not within one (1) mile of a School Facility.
- The Location is not within one (1) mile of a Child Care Center.
- There are no DOAAs within one (1) mile of the Rincon Location.
- The Location is not within one (1) mile of a DIC boundary.
- The Location is not within an Overlay District: Geologic Hazard Area, Floodplain, Floodway, MS4 or Airport Overlay.
- The proposed Location is not within a surface water supply area or within 2,640 feet of a Public Water System supply well that is completed in a Type III Aquifer or is a groundwater under the direct influence of surface water well as defined in Rule 411.b(1).
- This Location allows for the development of the entire 2.5-mile DSU from a single surface location.
- The Location is close to the eastern section line and an existing oil and gas location to reduce fragmentation of habitat and agricultural operations.
- There is nearby pipeline infrastructure to this Location where gas, oil, and produced water pipeline can be readily connected to the facility allowing for a significant reduction in truck traffic during the flowback and production phases of operation.
- The access road promotes safe entrance and egress to the site and complies with local regulations.
- The Surface Owner at this Location encourages development this Location was selected in conjunction with the landowner preferences.

Potential impacts to health, safety, welfare, wildlife and the environment related to the development of this location:

There are potential impacts from oil and gas development operations to the HPH and RBU, including impacts from light, noise, and dust. Each of these impacts, however, will be addressed through BMPs and site-specific mitigation measures that will avoid or minimize the impacts. There are no, HOBUEs, School Facilities, Child Care Centers, DOAAs, or DICs within one (1) mile of the site so concerns about the impacts associated with those cultural features are anticipated to be minimal. Aside from being located inside HPH for Pronghorn Winter Concentration Area, and 1,551 feet from a RBU, there are no other major environmental receptors or water features, such as wetlands, within 2,000 feet of the pad.

Permitting Considerations

- A SUA has been executed with the surface owner.
- An Informed Consent Letter has been obtained by the RBU 1,551 feet northwest of the Working Pad Surface.
- A 1041 WOGLA will be submitted concurrently with the OGD application.
- A new access permitted for oil and gas use would be obtained.
- During the 1041WOGLA Pre-application meeting held on October 2, 2024, this proposed Rincon Location and many alternatives were reviewed by Weld County, ECMC Representatives (Rebecca Treitz, Sierra Focht, Renee Wild), and CPW Representatives (Brandon Marette and Lexi Hamous-Miller). No participant

at the meeting identified anything that would prevent Bison from submitting an application for the proposed Rincon Location, nor did they identify anything that would prohibit such development.

Additional Information and Other Considerations

The list below details additional information and BMPs that will allow Bison to avoid, minimize, or mitigate the potential impacts created by the proposed Location. For a complete list of BMPs, please see the specific plans included in the Baja West OGDG submittal specific to Rincon Location.

- Bison will install sound walls for pre-production operations. This will include operations that occur at the Location during the Pronghorn Winter Concentration Area HPH seasonal timing window (January 1 – April 30).
- Utilize a quiet frac fleet for completion operations.
- Inform and educate employees and contractors on wildlife conservation practices, including illegal hunting and no harassment or feeding of wildlife.
- Fresh water will be piped to the Location via lay flat piping which will reduce the number of water-hauling truck traffic during the completions phase.
- Bison will utilize modernized flowback operations which routes the flowback water to the production facility where produced water is disposed via pipelines. This eliminates the need for associated flowback disposal hauling truck traffic.
- Pipeline takeaway for oil, natural gas, and produced water will be utilized during the production phase of this facility which will significantly reduce the amount of truck traffic associated with this site during day-to-day operations over the life of this Location.
- Conduct surveys two (2) weeks prior to all proposed disturbances according to CPW Act (BGEPa and the Endangered Species Act (ESA) laws in protection of active nesting activities, observe CPW requested protective buffers for active nesting species, and consult with CPW as warranted.
- Water will be used for dust suppression along access roads during all phases of pre-production operations when requested by the surface owner.
- During the production phase, Bison anticipates minimal to no noise, dust, and light impacts to nearby wildlife.

ALTERNATIVE LOCATION 4: ALT 4

Legal Description: SESE, Section 36, T8N, R62W, 6th P.M., Weld County, CO

Lat/Long: 40.61515/-104.26330

Tier: IV-B

Alternative Location 4 was identified by Weld County during the WOGLA pre-application process and was considered in the Rincon alternative analysis. Alternative Location 4 is in the SE ¼ of the SE ¼, Section 36, Township 8 North, Range 62 West, 6th P.M. Bison's analysis identified the following:

Disadvantages and Triggered ALA Criteria

- The Location is within Pronghorn Winter Concentration Area
 - Rule 304.b.(2).B.viii: The proposed Oil and Gas Location is within High Priority Habitat and the Operator did not obtain a waiver from CPW through a pre-application consultation.
- The step outs associated with this alternative location are approximately 0.5 miles longer than the step outs associated with the Rincon proposed location. The lengthy step outs associated with this alternative location create additional torque and drag during drilling which significantly increases the risk of complications and losing the wellbore. The increased risks associated with drilling these longer step outs are not desirable when compared to the proposed Rincon location. The longer step outs would result in

longer occupations for drilling and completions and Bison prefers to limit the duration on site when in a High Priority Habitat (HPH).

- Bison has not obtained a SUA for this Location.
- This Location is much closer to the RBU (approximately 1,328 feet) as compared to the Proposed Rincon Location which is 1,551 feet from the RBU.
 - Rule 304.b.(2).B.i: The proposed Working Pad Surface is within 2,000 feet of 1 or more Residential Building Unit or High Occupancy Building Units;
- There is a mapped Freshwater Emergent Wetland within the Working Pad Surface of this alternative location.
- Access to the Location will require approximately 843 feet of new disturbance for the private oil and gas access road and improve approximately, 500 feet of the existing private oil and gas access road.

Advantages:

- The Location is not within one (1) mile of a HOBUS, School Facilities, Child Care Centers, DOAA, or a DIC boundary.
- The Location is not within an Overlay District: Geologic Hazard Area, Floodplain, Floodway, MS4 or Airport Overlay.
- Access to the Location will utilize approximately 2041 feet of existing oil and gas access road.

Potential impacts to health, safety, welfare, wildlife, and the environment related to the development of this location:

There are potential impacts from the oil and gas development operations to the RBU that is 1,328 feet to the southwest and to the HPH (Pronghorn Winter Concentration Area), including impacts from light, noise, and dust. There is a water feature within this proposed alternative location. Bison would avoid, minimize, and mitigate impacts through BMPs and site-specific mitigation measures but the closer proximity to the RBU would result in more impacts to health, safety, welfare, wildlife, and the environment when compared to the proposed Rincon location.

Permitting Considerations

- Bison has not obtained a SUA for this Location.
- A 1041 WOGLA would be required.
- An OGDG would be required.
- The wells would need to be permitted with ECMC.

Conditions or factors that make the location unavailable:

Through Bison's evaluation, Alternative 4 was deemed as a location that was not viable. Due to the inefficiencies required to develop the minerals, longer drilling and completions operations to accommodate the step outs, proximity to the RBU, and drainage concerns from the wetland area located within the Working Pad Surface, this alternative would result in impacts to health, safety, welfare, wildlife, and the environment that are far greater when compared to the proposed Rincon Location.

ALTERNATIVE LOCATION 5: ALT 5

Legal Description: SESE, Section 35, T8N, R62W, 6th P.M., Weld County, CO

Lat/Long: 40.61260/-104.28783

Tier: III-B

Alternative Location 5 was identified by Weld County during the WOGLA pre-application process and was considered in the Rincon alternative analysis. This alternative is located in SE $\frac{1}{4}$ of the SE $\frac{1}{4}$, Section 35, Township 8 North, Range 62 West, 6th P.M., and is approximately one (1) mile west of the proposed Rincon Location. Bison's analysis identified the following:

Disadvantages and Triggered ALA Criteria

- The Location is within Pronghorn Winter Concentration Area
 - Rule 304.b.(2).B.viii: The proposed Oil and Gas Location is within High Priority Habitat and the Operator did not obtain a waiver from CPW through a pre-application consultation.
- The step outs associated with Alternative 5 would require nearly 1.5-mile step outs to reach the eastern side of the Rincon DSU. The lengthy step outs associated with this alternative location create additional torque and drag during drilling which significantly increases the risk of complications and losing the wellbore. The increased risks associated with drilling these longer step outs are not desirable when compared to the proposed location and would leave the eastern Rincon DSU minerals stranded. Additionally, the longer step outs would result in longer occupations for drilling and completions and Bison prefers to limit the duration on site when in a HPH.
- Access to the Location will require approximately 200 feet of new disturbance.
- There is a mapped Freshwater Emergent Wetland area approximately 321 feet west from this Location.
- The Location is further from existing oil and gas facilities, causing additional impact and new habitat fragmentation.
- Bison has a Weld County permit (WOGLA19-0042) that was previously permitted by Mallard that is set to expire May 23, 2025. This Location has not been built and will not be constructed prior to the expiration date. Weld County would require a new 1041 WOGLA Permit for this Location.
- The Form 2A associated with this site has expired and Bison filled a Sundry to Abandoned the Location.

Advantages:

- The Location is not within one (1) mile of a HOB, School Facilities, Child Care Centers, DOAA, or a DIC boundary.
- The Location is not within 2,000 feet of a RBU.
- The Location is not within an Overlay District: Geologic Hazard Area, Floodplain, Floodway, MS4 or Airport Overlay.

Potential impacts to health, safety, welfare, wildlife, and the environment related to the development of this location:

There are potential impacts from the oil and gas development operations to HPH (Pronghorn Winter Concentration Area), including impacts from light, noise, and dust. Bison would avoid, minimize, and mitigate impacts through BMPs and site-specific mitigation measures, but the increased number of RBU's within 1-mile and the water feature 321' west of the location would result in more impacts to health, safety, welfare, wildlife, and the environment when compared to the proposed location.

Permitting Considerations

- Bison has not obtained a Surface Use Agreement for this Location.
- A new 1041 WOGLA would be required.
- An OGD would be required.
- The wells would need to be permitted with ECMC.

Conditions or factors that make the location unavailable:

Through Bison's evaluation, Alternative 5 was deemed as a location that was not viable. Due to the inability to develop the minerals on the western side of the Rincon DSU, the drainage concerns from the proximity to the wetland area west of the location and the increased number of RBUs within one (1) mile of the alternative location would result in impacts to health, safety, welfare, wildlife, and the environment that are far greater when compared to the proposed Rincon location.

ALTERNATIVE LOCATION 6: ALT 6

Legal Description: NENE, Section 1, T7N, R62W, 6th P.M., Weld County, CO

Lat/Long: 40.60950/-104.26079

Tier: III-B

Alternative Location 6 is in NE $\frac{1}{4}$ of the NE $\frac{1}{4}$, Section 1, Township 7 North, Range 62 West, 6th P.M., and is approximately 660' northeast of the proposed Rincon Location. Bison's Rincon alternative analysis identified the following:

Disadvantages and Triggered ALA Criteria

- The Location is within Pronghorn Winter Concentration Area
 - Rule 304.b.(2).B.viii: The proposed Oil and Gas Location is within High Priority Habitat and the Operator did not obtain a waiver from CPW through a pre-application consultation.
- The pad design for Alternative 6 is restricted due to the exiting pipelines within the proposed Working Pad Surface.
- The alternative location would have to co-locate operations within the same disturbance for Red Hawk Petroleum, LLC – Marconi 1-1H Pad.
- Depending on the final pad design, wells may have to be located within 150 feet of a property line
 - Bison would be required to obtain a waiver signed by the offset Surface Owners
 - Bison would have to apply for an exception to 604.a.2.

Advantages:

- The Location is not within one (1) mile of a HOBUS, School Facilities, Child Care Centers, DOAA, or a DIC boundary.
- The Location is not within 2,000 feet of a RBU.
- The Location is not within an Overlay District: Geologic Hazard Area, Floodplain, Floodway, MS4 or Airport Overlay.
- Access to the Location will utilize approximately 2041 feet of existing oil and gas access road.
- The Location is closer to an existing oil and gas facility (not owned by Bison) than the Proposed Rincon Location.

Potential impacts to health, safety, welfare, wildlife, and the environment related to the development of this location:

There are potential impacts from the oil and gas development operations to the HPH (Pronghorn Winter Concentration Area), including impacts from light, noise, and dust. Bison would avoid, minimize, and mitigate impacts through BMPs and site-specific mitigation measures, but the identified hydrology features in the area are closer to this site than the proposed location and would result in more impacts to health, safety, welfare, wildlife, and the environment when compared to the proposed location.

Permitting Considerations

- Bison has not obtained a Surface Use Agreement for this Location.

- A 1041 WOGLA would be required.
- An OGDPA would be required.
 - Bison would have to apply for an exception to 604.a.2.
 - Bison would need to acquire waivers from the offset Surface Owners.
- The wells would need to be permitted with ECMC.

Conditions or factors that make the location unavailable:

The complications with designing the pad to be co-located within the same disturbance as Red Hawk's pad, limited space from the impediment of the existing pipelines within the proposed Working Pad Surface, and the need to locate the wells within 150 feet of a property line and acquire waivers from offset Surface Owners deterred Bison from developing the minerals from Alternative 6.

ALTERNATIVE LOCATION 7: ALT 7

Legal Description: NWNW, Section 13, T7N, R62W, 6th P.M., Weld County, CO

Lat/Long: 40.57729/-104.27560

Tier: III-A

Alternative Location 7 was identified by Weld County during the WOGLA pre-application process and was considered in the Rincon alternative analysis. This alternative is in NW ¼ of the NW ¼, Section 13, Township 7 North, Range 62 West, 6th P.M., and is approximately 2.5 miles south of the proposed Rincon Location. Bison's analysis identified the following:

Disadvantages and Triggered ALA Criteria

- The Location is within Pronghorn Winter Concentration Area
 - Rule 304.b.(2).B.viii: The proposed Oil and Gas Location is within High Priority Habitat and the Operator did not obtain a waiver from CPW through a pre-application consultation.
- Access to the Location will require approximately 300 feet of new disturbance.
- The Location is much further from existing oil and gas facilities, causing additional impact and new habitat fragmentation.
- This Location would require approximately 2.5 miles of additional pipeline disturbance compared to the proposed location.

Advantages:

- The Location is not within one (1) mile of a HOBV, School Facilities, Child Care Centers, DOAA, or a DIC boundary.
- The Location is not within 2,000 feet of a RBU.
- The Location is not within an Overlay District: Geologic Hazard Area, Floodplain, Floodway, MS4 or Airport Overlay.

Potential impacts to health, safety, welfare, wildlife, and the environment related to the development of this location:

There are potential impacts from the oil and gas development operations to the HPH (Pronghorn Winter Concentration Area), including impacts from light, noise, and dust. There are no major environmental receptors or water features within 2,000 feet of this Location. Bison would avoid, minimize, and mitigate impacts through BMPs and site-specific mitigation measures.

Permitting Considerations

- Bison has not obtained a Surface Use Agreement for this Location.
- A 1041 WOGLA would be required.
- An OGDG would be required.
- The wells would need to be permitted with ECMC.

Conditions or factors that make the location unavailable:

The additional habitat fragmentation associated with this alternative location far exceed that of the proposed Rincon Location, which utilizes an existing access road and consolidates new disturbance near existing habitat fragmentation.

CONCLUSION

The Proposed Locations for the Baja West Locations, Cloudbreak, Mavericks, and Rincon allow Bison to responsibly develop the areas in a protective manner while minimizing adverse impacts. The Proposed Locations allow for safe and effective development of all DSUs. Development of the DSUs require surface locations within HPH so Bison selected the pad locations that would minimize disturbance of HPH compared to alternative locations (i.e., alternative locations require additional wells to effectively develop the target minerals, additional pipeline, and/or additional access road). The Proposed Locations also minimized habitat fragmentation because they are either located within ¼ mile of Highway 14 or adjacent to existing oil and gas locations.

The Cloudbreak is in a location that is over 2,000 feet from the nearest RBU, HOBUE, School Facility, Child Care Center, DIC, and DOAA. The nearest mapped hydrology feature is an unnamed ephemeral stream located 1,859 feet north however, based on the findings from the on site assessment, the NWI-mapped feature was deemed to be determined non-wetland. The pad is located in active non-irrigated cropland, so Bison also worked cooperatively with surface owners, and with their best interest in mind, to select a road and pad location that met their preferences. Bison does not anticipate negative effects to health, safety, welfare, and the environment associated with the development of oil and gas from the Proposed Cloudbreak Location, and no alternative site offered a reduction of impact to wildlife resources while also satisfying surface owner preferences and operational efficiency.

Bison evaluated the three (3) alternative locations identified in this application for potential impacts to public health, safety, welfare, the environment, and wildlife resources, as well as selecting an optimal area for safe and effective operational practices. Based on this alternative location analysis, Bison has determined the Proposed Cloudbreak Location to be the most viable and preferred Location to develop the minerals within the development area.

The Mavericks is in a location that is over one (1) mile from the nearest RBU, HOBUE, School Facility, Child Care Center, DIC, and DOAA. The nearest mapped hydrology feature is a Farmed Palustrine Wetland located over 2,000 feet southwest of the location. The pad is located in active non-irrigated cropland, so Bison also worked cooperatively with surface owners, and with their best interest in mind, to select a road and pad location that met their preferences. Bison does not anticipate negative effects to health, safety, welfare, and the environment associated with the development of oil and gas from the Proposed Mavericks Location, and no alternative site offered a reduction of impact to wildlife resources while also satisfying surface owner preferences and operational efficiency.

Bison evaluated the two (2) alternative locations identified in this application for potential impacts to public health, safety, welfare, the environment, and wildlife resources, as well as selecting an optimal area for safe and effective operational practices. Based on this alternative location analysis, Bison has determined the Proposed

Mavericks Location to be the most viable and preferred Location to develop the minerals within the development area.

The Rincon is in a location that does have one (1) RBU within 2,000 feet from the Working Pad Surface, however, Bison obtained the informed consent waiver. The Rincon pad is over one (1) mile from the nearest HOBUs, School Facility, Child Care Center, DIC, and DOAA. The nearest mapped hydrology feature is a mapped Farmed Palustrine Wetland located 995 feet to the southeast however, based on the findings from the on site assessment, the NWI-mapped feature was deemed to be determined non-wetland. The pad is located in rangeland, so Bison also worked cooperatively with surface owners, and with their best interest in mind, to select a road and pad location that met their preferences. Bison does not anticipate negative effects to health, safety, welfare, and the environment associated with the development of oil and gas from the Proposed Rincon Location, and no alternative site offered a reduction of impact to wildlife resources while also satisfying surface owner preferences and operational efficiency.

Bison evaluated the four (4) alternative locations identified in this application for potential impacts to public health, safety, welfare, the environment, and wildlife resources, as well as selecting an optimal area for safe and effective operational practices. Based on this alternative location analysis, Bison has determined the Proposed Rincon Location to be the most viable and preferred Location to develop the minerals within the development area.

APPENDIX A

Baja West Alternative Location Map

BAJA WEST ALTERNATIVE LOCATION ANALYSIS - MAP 1



ASCENT GEOMATICS SOLUTIONS
8620 WOLFF COURT
WESTMINSTER, CO 80031
(303) 928-7128

PREPARED FOR:



BISON IV OPERATING LLC
518 17TH STREET, SUITE 1800
DENVER, CO 80202
(720) 644-8997

SHEET NAME:
ALTERNATIVE LOCATION ANALYSIS
SURFACE LOCATION:
SEC. 1, T7N R62W, SEC. 22, T8N R62W,
SEC. 31, T8N R61W
WELD COUNTY, COLORADO

DRFT	CHK	DATE
DM	KS	10/21/24
DM	KS	10/21/24
DM	KS	10/22/24
DM	KS	10/22/24

REV.	REVISION DESCRIPTION
0	ISSUED FOR PERMIT
1	ISSUED FOR PERMIT

DRAWING DATE:
10/21/24
DRAFTED BY:
DM
SHEET NO. OF
01 OF 03

- LEGEND:
- SECTION LINE
 - TOWNSHIP LINE
 - OGD P BOUNDARY
 - PROPOSED OIL AND GAS LOCATION
 - ALTERNATIVE OIL AND GAS LOCATION

PROPOSED LOCATIONS

LOCATION	LATITUDE	LONGITUDE
CLOUDBREAK PAD	40.641319°	-104.305909°
RINCON PAD	40.607919°	-104.264084°
MAVERICKS PAD	40.6233560°	-104.256837°

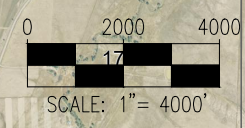
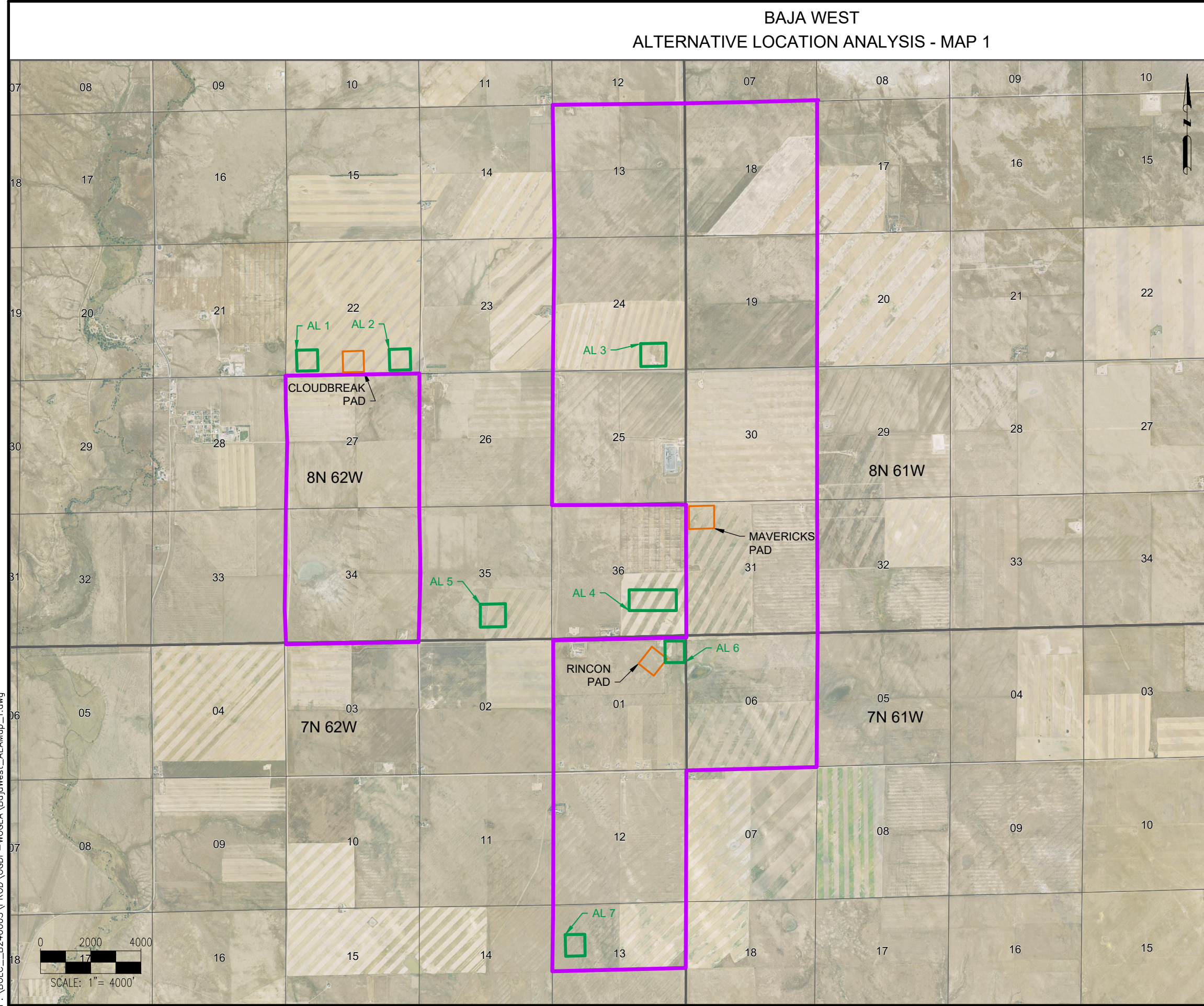
MUNICIPAL BOUNDARIES:
(AS MEASURED FROM THE WORKING PAD SURFACE)

LOCATION	MEASUREMENT	MUNICIPALITY
CLOUDBREAK PAD	±5280' N	GROVER
RINCON PAD	±5280' N	GROVER
MAVERICKS PAD	±5280' N	GROVER
AL 1	±5280' N	GROVER
AL 2	±5280' N	GROVER
AL 3	±5280' N	GROVER
AL 4	±5280' N	GROVER
AL 5	±5280' N	GROVER
AL 6	±5280' N	GROVER
AL 7	±5280' N	GROVER

DATA SOURCE:
AERIAL IMAGERY: NAIP 2023
PLSS DATA: BLM

PUBLICLY AVAILABLE DATA SOURCES HAVE NOT BEEN INDEPENDENTLY VERIFIED BY ASCENT.

DISCLAIMER:
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN INDEPENDENTLY VERIFIED.



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BAJA WEST ALTERNATIVE LOCATION ANALYSIS - MAP 2



ASCENT GEOMATICS SOLUTIONS
8620 WOLFF COURT
WESTMINSTER, CO 80031
(303) 928-7128

PREPARED FOR:



BISON IV OPERATING LLC
518 17TH STREET, SUITE 1800
DENVER, CO 80202
(720) 644-8997

SHEET NAME:
ALTERNATIVE LOCATION ANALYSIS
SURFACE LOCATION:
SEC. 1, T7N R62W, SEC. 22, T8N R62W,
SEC. 31, T8N R61W
WELD COUNTY, COLORADO

DRFT	CHK	DATE
DM	KS	10/21/24
CS	DM	10/22/24
CS	DM	10/22/24

REV.	REVISION DESCRIPTION
0	ISSUED FOR PERMIT
1	ISSUED FOR PERMIT

DRAWING DATE:
10/21/24
DRAFTED BY:
DM
SHEET NO.
02 OF 03

- LEGEND:
- SECTION LINE
 - TOWNSHIP LINE
 - OGD P BOUNDARY
 - PROPOSED OIL AND GAS LOCATION
 - ALTERNATIVE OIL AND GAS LOCATION
 - 2000' BUFFER
 - EXISTING OR PERMITTED OIL & GAS LOCATION

PROPOSED LOCATIONS

LOCATION	LATITUDE	LONGITUDE
CLOUDBREAK PAD	40.641319°	-104.305909°
RINCON PAD	40.607919°	-104.264084°
MAVERICKS PAD	40.623560°	-104.256837°

DISPROPORTIONATELY OR CUMULATIVELY IMPACTED COMMUNITIES
WITHIN 2000' OF THE WPS:
(AS MEASURED FROM THE WORKING PAD SURFACE)
ALL PROPOSED LOCATIONS & ALTERNATIVE LOCATION ARE OVER 5280' FROM THE
NEAREST DISPROPORTIONATELY IMPACTED COMMUNITY

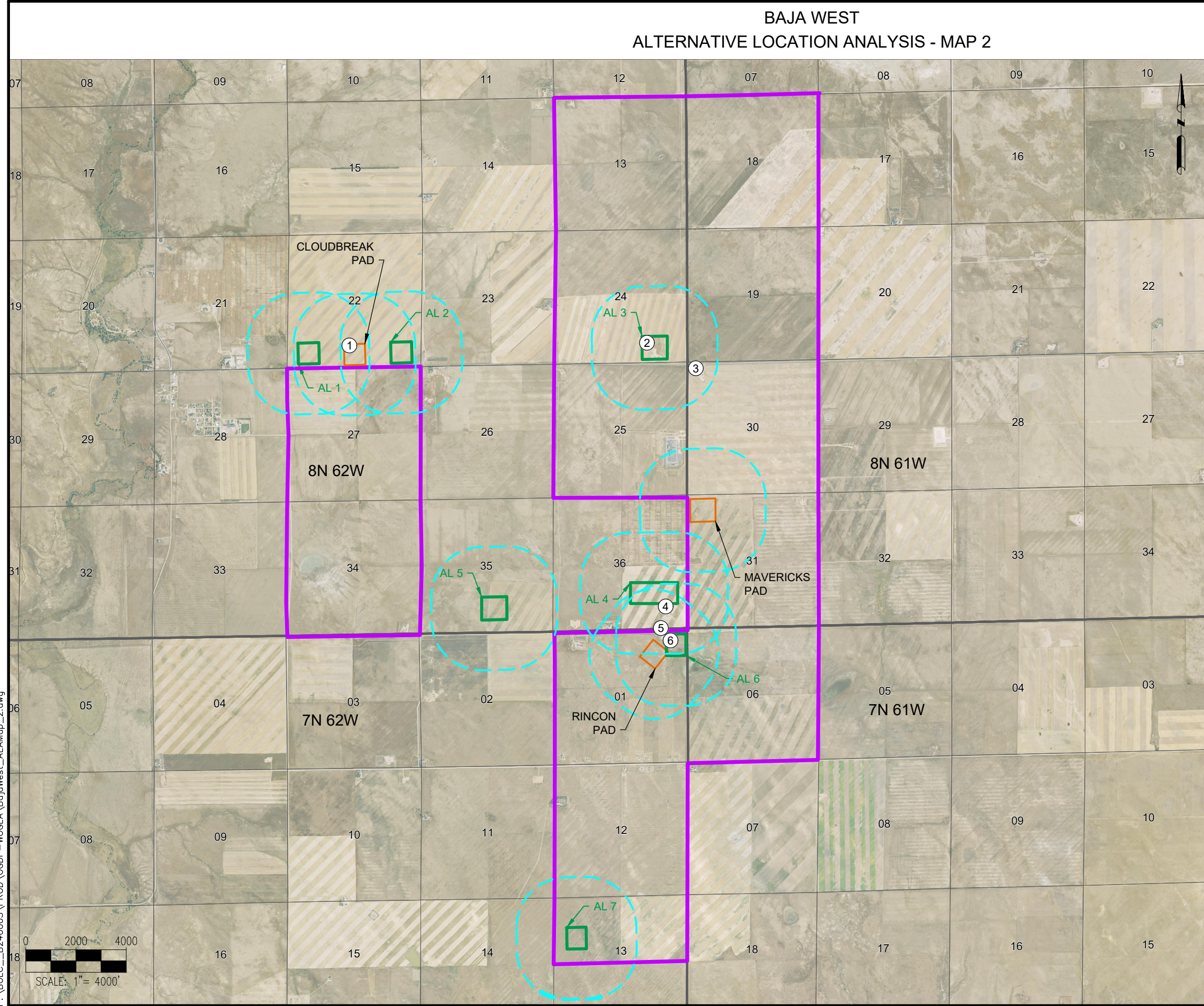
RELATED LOCATIONS

NUMBER	LOCATION ID
1	476460
2	456368
3	422994
4	419622
5	464200
6	423680

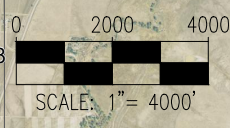
DATA SOURCE:
AERIAL IMAGERY: NAIP 2023
EXISTING OIL & GAS LOCATIONS: ECMC
PLSS DATA: BLM

PUBLICLY AVAILABLE DATA SOURCES HAVE NOT BEEN INDEPENDENTLY VERIFIED
BY ASCENT.

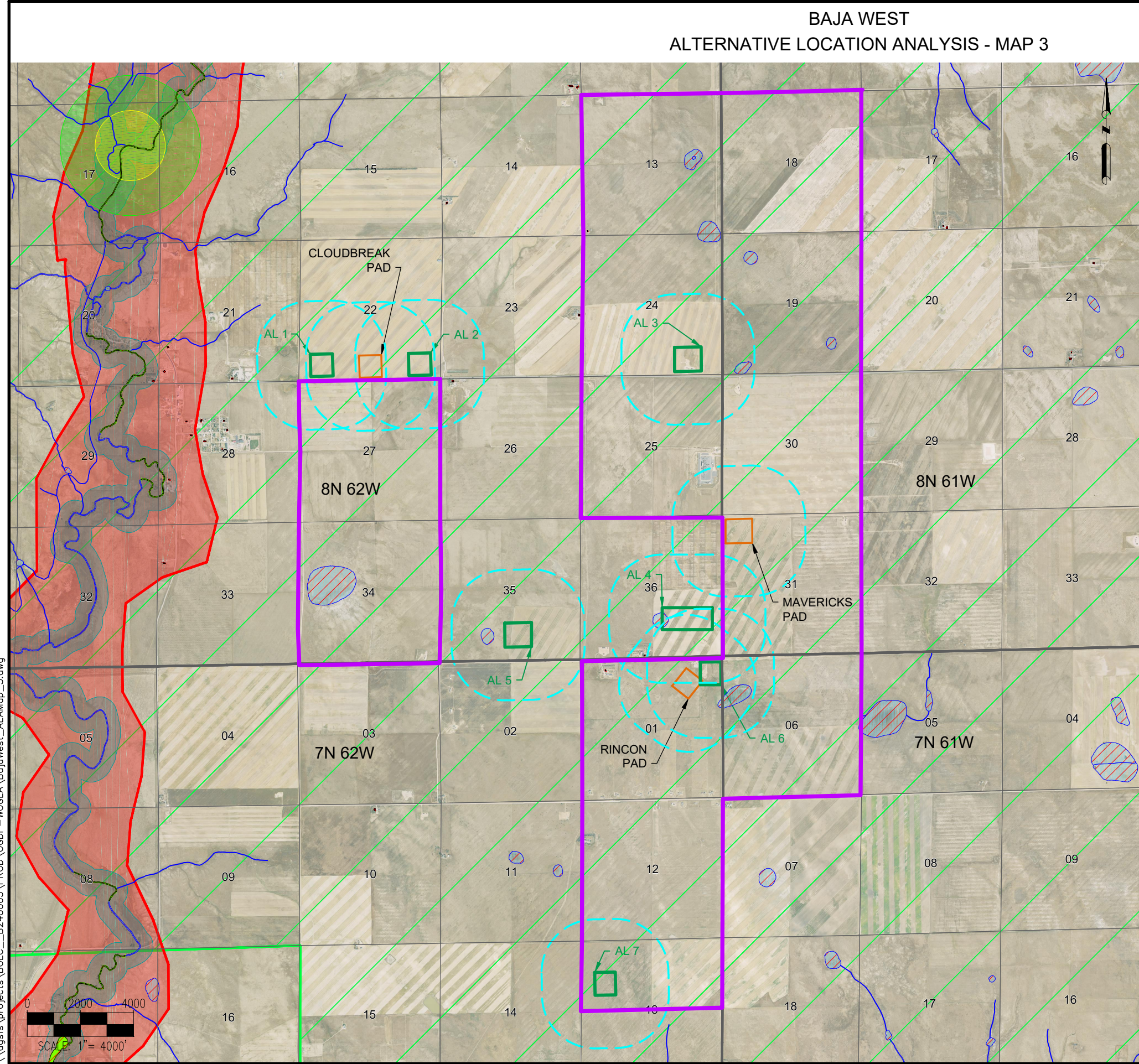
DISCLAIMER:
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD
NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP
OR OTHER PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED HAVE NOT BEEN
FIELD VERIFIED AND MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO
HAS NOT BEEN INDEPENDENTLY VERIFIED.



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BAJA WEST ALTERNATIVE LOCATION ANALYSIS - MAP 3



LEGEND:

SECTION LINE	HIGH PRIORITY HABITAT - AQUATIC NATIVE SPECIES CONSERVATION WATERS
TOWNSHIP LINE	HIGH PRIORITY HABITAT - BALD EAGLE ACTIVE NEST SITE - 1/2 MILE BUFFER
OGD P BOUNDARY	HIGH PRIORITY HABITAT - BALD EAGLE ACTIVE NEST SITE - 1/4 MILE BUFFER
PROPOSED OIL AND GAS LOCATION	HIGH PRIORITY HABITAT - MULE DEER SEVERE WINTER RANGE
ALTERNATIVE OIL AND GAS LOCATION	HIGH PRIORITY HABITAT - PRONGHORN WINTER CONCENTRATION
2000' BUFFER	WETLAND
RESIDENTIAL BUILDING UNIT	RIPARIAN AREA

PROPOSED LOCATIONS

LOCATION	LATITUDE	LONGITUDE
CLOUDBREAK PAD	40.641319°	-104.305909°
RINCON PAD	40.607919°	-104.264084°
MAVERICKS PAD	40.623560°	-104.256837°

LOCATION	i. <2,000' FROM RBU OR HOBUS	ii. <2,000' FROM SCHOOL OR CHILD CARE CENTER	iii. <1,500' FROM DESIGNATED OUTSIDE ACTIVITY AREA	iv. <2,000' FROM JURISDICTIONAL BOUNDARY AND PLG OBJECTS	v. WITHIN FLOODPLAIN	vi. ab. WITHIN A SURFACE WATER SUPPLY AREA	vii. ab. <2,640' FROM TYPE III OR GUIDI WELL	viii. WITHIN IMMEDIATELY UPGRADIENT OF WETLAND OR RIPARIAN CORRIDOR	ix. IN HIGH PRIORITY HABITAT AND CPW DID NOT WAIVE	x. OPERATOR USING SURFACE BOND	x. <2,000' FROM RBU/HOBUS/SCHOOL WITHIN A DIC
CLOUDBREAK PAD	N	N	N	N	N	N	N	N	Y	N	N
RINCON PAD	Y	N	N	N	N	N	N	N	Y	N	N
MAVERICKS PAD	N	N	N	N	N	N	N	N	Y	N	N
AL 1	N	N	N	N	N	N	N	N	Y	N	N
AL 2	Y	N	N	N	N	N	N	N	Y	N	N
AL 3	N	N	N	N	N	N	N	N	Y	N	N
AL 4	Y	N	N	N	N	N	N	Y	Y	N	N
AL 5	N	N	N	N	N	N	N	N	Y	N	N
AL 6	N	N	N	N	N	N	N	Y	Y	N	N
AL 7	N	N	N	N	N	N	N	N	Y	N	N

DATA SOURCE:
 AERIAL IMAGERY: NAIP 2023
 PLSS DATA: BLM
 WETLANDS: USFWS
 RIPARIAN AREAS: USFWS
 BRIGHTON 1-189 PWS PROTECTION AREA: ECMC
 SCHOOL FACILITIES: CDPHE
 HIGH PRIORITY HABITAT: CPW

DISCLAIMER:
 THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN INDEPENDENTLY VERIFIED.

8620 WOLFF COURT
 WESTMINSTER, CO 80031
 (303) 928-7128

PREPARED FOR:

BISON IV OPERATING LLC
 518 17TH STREET, SUITE 1800
 DENVER, CO 80202
 (720) 644-8997

SHEET NAME:
ALTERNATIVE LOCATION ANALYSIS
 SURFACE LOCATION:
 SEC. 1, T7N R62W, SEC. 22, T8N R62W,
 SEC. 31, T8N R61W
 WELD COUNTY, COLORADO

REV.	REVISION DESCRIPTION	DATE	CHK
0	ISSUED FOR PERMIT	10/21/24	DM
1	ISSUED FOR PERMIT	10/22/24	DM

DRAWING DATE:
10/21/24

DRAFTED BY:
DM

SHEET NO.
03 OF 03

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Reference Point	Proposed CLOUDBREAK Alternative Location 1		Proposed CLOUDBREAK Alternative Location 2		Proposed CLOUDBREAK Alternative Location 5		Proposed MAVERICKS Alternative Location 3		Proposed MAVERICKS Alternative Location 4		Proposed Rincon Alternative Location 6		Proposed RINCON Alternative Location 7								
	Latitude 40.640033	Longitude -104.33445	Latitude 40.641200	Longitude -104.29886	Latitude 40.612000	Longitude -104.29783	Latitude 40.641026	Longitude -104.26324	Latitude 40.611150	Longitude -104.2633	Latitude 40.609500	Longitude -104.26079	Latitude 40.577280	Longitude -104.2716							
304.b.(2).C.ii-304.b.(3).A																					
Distance to nearest Cultural Feature:	Distance	Direction	Distance	Direction	Distance	Direction	Distance	Direction	Distance	Direction	Distance	Direction	Distance	Direction							
Building Unit	2055	W	747	SE	2011	SW	3976	NW	1328	SW	2060	W	4810	SW							
Residential Building Unit	2766	W	747	SE	2011	SW	3976	NW	1328	SW	2060	W	4810	SW							
HOBU	3434	SW	5280+	SW	5280+	NW	5280+	SW	5280+	NW	5280+	NW	5280+	NW							
Designated Outside Activity Area	5280+	SW	5280+	SW	5280+	SW	5280+	SW	5280+	SW	5280+	SW	5280+	SW							
Public Road	2007	S	2007	S	476	S	1187	S	1338	SW	1680	W	281	W							
Above-ground Utility	4587	E	896	E	439	S	177	S	1488	W	1017	W	2491	W							
Railroad	5280+	SW	5280+	SW	5280+	SW	5280+	SW	5280+	SW	5280+	SW	5280+	SW							
Property Line	2007	S	2007	S	408	S	73	S	3007	E	1707	N	0	N							
School Facility	2911	SW	5280+	SW	5280+	NW	5280+	SW	5280+	NW	5280+	NW	5280+	NW							
Child Care Center	2911	SW	5280+	SW	5280+	NW	5280+	SW	5280+	NW	5280+	NW	5280+	NW							
Boundary of DIC	5280+	W	5280+	W	5280+	W	5280+	W	5280+	W	5280+	W	5280+	W							
RIB, HOBU or School Facility within Disproportionately Impacted Community Within 2000 feet	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
304.b.(2).C.ii-304.b.(3).B																					
Number of Cultural Features within:	0-500 feet	501-1,000 feet	1,000-2,000 feet	0-500 feet	501-1,000 feet	1,000-2,000 feet	0-500 feet	501-1,000 feet	1,000-2,000 feet	0-500 feet	501-1,000 feet	1,000-2,000 feet	0-500 feet	501-1,000 feet	1,000-2,000 feet						
Bus	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0						
RBU	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0						
HOBUs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
School Properties	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
School Facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
DICs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
304.b.(2).C.iii-304.aa																					
304.b.(2).B Criteria Met (include as many lines as needed and provide a brief description of each criteria met)	N/A		N/A		N/A		N/A		N/A		N/A		N/A								
304.b.(2).C.iii-304.bb																					
Location within DIC or within 2000' of DIC? YES or NO	NO		NO		NO		NO		NO		NO		NO								
IF YES, Distance to nearest RIB:	Distance	Direction	Distance	Direction	Distance	Direction	Distance	Direction	Distance	Direction	Distance	Direction	Distance	Direction							
IF YES, Distance to nearest HOBU:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
IF YES, Distance to nearest School:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
IF YES, Describe community outreach efforts per 304.b.(2).C.ii	N/A		N/A		N/A		N/A		N/A		N/A		N/A								
IF YES, the number and description of existing Oil and Gas Locations, Facilities, and Wells within 200' of any RBU, HOBU, or School within 2000' of the proposed location:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
304.b.(2).C.iii-304.cc																					
Distance to municipal or county boundaries with 2000', and names of the Proximity Local Government(s)	Distance	Name	Distance	Name	Distance	Name	Distance	Name	Distance	Name	Distance	Name	Distance	Name							
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
304.b.(2).C.iii-304.dd																					
Relevant Local Government Name	Weld County		Weld County		Weld County		Weld County		Weld County		Weld County		Weld County								
RIG land use or zoning designation	Agricultural - Ag Rural Planning Area		Agricultural - Ag Rural Planning Area		Agricultural - Ag Rural Planning Area		Agricultural - Ag Rural Planning Area		Agricultural - Ag Rural Planning Area		Agricultural - Ag Rural Planning Area		Agricultural - Ag Rural Planning Area								
RIG permitting process	1041 WOGLA		1041 WOGLA		1041 WOGLA		1041 WOGLA		1041 WOGLA		1041 WOGLA		1041 WOGLA								
Status of RIG permit if applicable	N/A		N/A		WOGLA will expire prior to construction		WOGLA will expire prior to construction		N/A		N/A		N/A								
304.b.(2).C.iii-304.ee																					
Current Land Use	non-irrigated corland		non-irrigated corland		non-irrigated corland and grazing		non-irrigated corland		non-irrigated corland and grazing		Rangeland		non-irrigated corland								
Plans for future use of Location	non-irrigated corland		non-irrigated corland		non-irrigated corland and grazing		non-irrigated corland		non-irrigated corland and grazing		Rangeland		non-irrigated corland								
Plans for future use proximal to location	non-irrigated corland		non-irrigated corland		non-irrigated corland and grazing		non-irrigated corland		non-irrigated corland and grazing		Rangeland		non-irrigated corland								
304.b.(2).C.iii-304.fff																					
Distance to nearest wetland, surface water (waters of the State), surface water supply area, or PWS supply well (TPIW aquifer or GUDI)	Distance	Direction	Type	Distance	Direction	Type	Distance	Direction	Type	Distance	Direction	Type	Distance	Direction	Type						
	2,640	NW	Ephemeral Stream/River	5,867	NW	Ephemeral Stream/River	321'	W	Freshwater emergent wetland - Farmed Pasture	4312'	N	Palustrine Wetland	0	W	Freshwater Emergent Wetland - Farmed Pasture Wetland	450'	SE	Freshwater Emergent Wetland - Farmed Pasture Wetland	2253'	SE	Ephemeral Stream/River
Distance to nearest HPH	Distance	Direction	Description	Distance	Direction	Description	Distance	Direction	Description	Distance	Direction	Description	Distance	Direction	Description						
	0	Overlaps with pad	Pronghorn winter concentration area	0	Overlaps with pad	Pronghorn winter concentration area	0	Overlaps with pad	Pronghorn winter concentration area	0	Overlaps with pad	Pronghorn winter concentration area	0	Overlaps with pad	Pronghorn winter concentration area						
304.b.(2).C.iii-304.fff																					
Articulated method of RTC	SUA		SUA		SUA		SUA		SUA		SUA		SUA								
Surface Ownership	FEE		FEE		FEE		FEE		FEE		FEE		FEE								
Additional Information																					
604.a considerations	N/A		N/A		N/A		N/A		N/A		N/A		2								
604.b considerations	N/A		N/A		N/A		N/A		N/A		N/A		N/A								
Any variance or other relief required	N/A		N/A		N/A		N/A		N/A		N/A		N/A								
Tier Classification	III-B		IV-B		III-B		III-B		IV-B		III-B		III-B								
The following items should be answered in a written narrative format and attached to the form 2A as "ALA Narrative Summary" (PDF format)																					
Description of potential impacts to health, safety, welfare, wildlife, and the environment related to the development of this location																					
Description of advantages and disadvantages associated with this location permitting considerations for this location																					
Conditions of factors that make the location unavailable																					
Any other considerations																					