

# **Alternative Location Analysis Narrative**

## **OGDP 1 A07-08 Facility**

### **Proposed Location: A07-01 Pad**

**Development Area:** Township 6 North, Range 64 West, 6<sup>th</sup> P.M.  
Sections: 5 W/2; 6 E/2; 7 E/2; 8 N/2; 9 N/2; 18 E/2  
Weld County, Colorado

Township 7 North, Range 64 West, 6<sup>th</sup> P.M.  
Sections: 31 E/2; 32 W/2  
Weld County, Colorado

**Location Area:** Township 6 North, Range 64 West, 6<sup>th</sup> P.M.  
Sections: 7 NE/4NE/4  
Weld County, Colorado

**Location's setting and potentially impacted receptors:** (Land use, density of RBUs, HOBUs, proximity to urban development, etc.)

The proposed A07-01 well pad location is in flood irrigated crop land. Future land use surrounding the proposed oil and gas location is also intended for agricultural production. The nearest Residential Building Unit is located approximately 266 feet South, and this Residential Building Unit is the surface owner that's a party to the Surface Use Agreement for the A07-01 Pad. In addition, there's one Residential Building Unit within 500 feet that's not a party to the Surface Use Agreement, and twelve total Residential Building Units within 2,000 feet not party to the Surface Use Agreement for the proposed development. Informed Consent has been obtained by the Residential Building Units within 500 feet of the A07-01 Pad that are not a party to the Surface Use Agreement for the proposed development. The A07-01 Pad location will only consist of wellheads and associated equipment and the wells will produce at the A07-08 Facility location to the South. The closest areas of disturbance to each Residential Building Unit will be utilized for the temporary drilling and completion phases of operation, as well as utilized for local government stormwater drainage standards and topsoil storage for the respective operation. There are no High Occupancy Building Units or other dense urban development identified within the immediately adjacent proposed development area. The surrounding properties immediately adjacent to the proposed development area consist of lots purchased for the sole purpose of existing Residential Building Units as well as larger parcels that have been historically utilized for agricultural production.

**Potential Impacts to health, safety, welfare, wildlife, and the environment:** (Proximity to floodplains, wetlands, Surface Water Supply Areas, wildlife, distance to BUs, BU ownership, right to construct, DIC, current and future land use, etc.)

The A07-01 well pad location is in flood irrigated crop land. Future land use surrounding the proposed oil and gas location is also intended for agricultural production. Willow Creek and associated FEMA floodplain limits are located approximately 725 feet West and 435 feet West of the proposed surface development, respectively. The Greeley Number 2 Canal is approximately 781 feet Southwest of the A07-01 Pad. In addition, there are various other wetland features identified within the surveyed area for the A07-01 Pad associated with Willow Creek and the Greeley Number 2 Canal. The other ponds and ditches identified exist for the irrigation purposes of the respective agricultural fields in the area. Finally, there are no High Priority Habitats within the immediate vicinity of the A07-01 Pad.

Advantages and disadvantages associated with location: (Consolidate operations, facilities, infrastructure, equipment requirements, access points, roads, routes and transportation, distance to municipal boundaries, local government planning, etc.)

Disadvantages: The main disadvantage of the location are the twelve Residential Building Units within 2,000 feet that are not a party to the Surface Use Agreement, including one Residential Building Unit not a party to the Surface Use Agreement within the 500-foot buffer of the A07-01 Pad. The Informed Consent for the one Residential Building Unit within 500 feet of the A07-01 Pad not a party to the Surface Use Agreement has been obtained.

Advantages: The main advantage of the proposed location is that the A07-01 Pad develops minerals under the unincorporated town of Galeton while utilizing a surface location approximately a mile from town limits, and from the Galeton Elementary School on the South end of the town. Similarly, the proposed location would develop the minerals under the Federal Aviation Administration (“FAA”) VOR navigation facility in Section 9 from approximately a mile and a half away. In addition, the proposed location does not overlay a Disproportionately Impacted Community or a High Priority Habitat as defined by the COGCC.

Permitting considerations: (Timing of local or federal permits, etc.)

An overview of the Wells Ranch CDP was presented by Noble at a public meeting on June 13<sup>th</sup>, 2019, at the Eaton Recreation Center in Eaton, Colorado, and the A07-01 Pad location is consistent with what was presented at the public meeting. Weld County previously approved a Comprehensive WOGLA covering the CDP acreage, which includes the A07-01 Pad location. In addition, Weld County held a public hearing regarding the Wells Ranch CDP on December 12<sup>th</sup>, 2019. As a part of the hearing process, Weld County published notification regarding the hearing in the Greeley Tribune and additionally sent notice to Surface Owners and Building Unit occupants in an effort to further engage the surrounding community. No parties filed for intervention to the Comprehensive WOGLA during the 1041 WOGLA process. Weld County issued the approved Comprehensive WOGLA on January 8<sup>th</sup>, 2020, after obtaining input from Weld County planning staff and other stakeholders. Because Weld County has approved and issued a Comprehensive WOGLA covering the Proposed Location, Noble is not required to obtain an individual 1041 WOGLA for the Proposed Location. Consistent with the Comprehensive WOGLA, Noble will submit supplemental site-specific information to

Weld County prior to constructing the proposed location, should the same be approved by COGCC as part of the OGDG process.

Pursuant to Rule 604.a.(4), Noble has received Informed Consent from the affected owner(s) of the Residential Building Unit(s) within 500 feet of the proposed location. The Informed Consent packets, among other materials, included this ALA. The signatures are attached as Exhibit A to this ALA. As a result of obtaining the Informed Consents, the proposed location has become the chosen location of those Residential Building Unit owner(s) most impacted.

*Tier Classification:*

Tier IV-A – No variance required

## **Eliminated Alternative Locations**

### **Alternative Location Analysis 1**

**Location Area:** Township 6 North, Range 64 West, 6<sup>th</sup> P.M.  
Sections: 6 SE/4SW/4  
Weld County, Colorado

**Location's setting and potentially impacted receptors:** (Land use, density of RBUs, HOBUs, proximity to urban development, etc.)

The Alternative Location Analysis ("ALA") described herein reference specific ALA numbers on the attached ALA Map. The ALA Map depicts locations across the OGDP; thus, some of the numbered locations on the ALA Map may not be addressed as a potential alternative to the proposed location reviewed in this document. Those ALA numbers from the ALA Map that are not evaluated as part of this document will be reviewed as an ALA for another proposed location within the OGDP.

The Alternative Location 1 ("ALA 1") is in a pivot irrigated crop field. Future land use surrounding the proposed oil and gas location is also intended for agricultural production. ALA 1 would likely have seven Residential Building Units within 2,000 feet of the surface development, including two Residential Building Units within the 500-foot buffer of ALA 1. ALA 1 would put the proposed location within the same section, and in closer proximity, as the unincorporated town of Galeton and Galeton Elementary School. There would potentially be an opportunity to utilize an existing PDC Energy oil and gas location, being Location ID 305884.

**Potential Impacts to health, safety, welfare, wildlife, and the environment:** (Proximity to floodplains, wetlands, Surface Water Supply Areas, wildlife, distance to BUs, BU ownership, right to construct, DIC, current and future land use, etc.)

ALA 1 is in a pivot irrigated crop field. Future land use surrounding the proposed oil and gas location is also intended for agricultural production. ALA 1 would potentially be further set back from Willow Creek, the Greeley Number 2 Canal, and associated floodplain and wetland features than the A07-01 Pad. There are no Rule 1202.d. High Priority Habitats associated with this respective location.

**Advantages and disadvantages associated with location:** (Consolidate operations, facilities, infrastructure, equipment requirements, access points, roads, routes and transportation, distance to municipal boundaries, local government planning, etc.)

**Advantages:** The main advantage of this location is there would be fewer overall Residential Building Units within 2,000 feet of ALA 1 than the A07-01 Pad. Another potential advantage is that, pending approval from PDC Energy, this location could utilize an already existing oil and gas location (single well Kreps 24-6, Location ID 305884).

**Disadvantages:** The main disadvantage of this location is that it puts the proposed surface development within the same section as the unincorporated town of Galeton and Galeton

Elementary School. Another potential disadvantage is that it complicates the targeted mineral development of Sections 8 (N/2) and 9 (N/2), both in Township 6N Range 64W, that is more easily accessible from the A07-01 Pad location.

Permitting considerations: (Timing of local or federal permits, etc.)

This location has not been approved under the Weld County Comprehensive 1041 WOGLA process for the Wells Ranch CDP.

Conditions or factors that make the location unavailable:

This location is not covered under a Surface Use Agreement for the contemplated development. Any agreements that were in place with the respective surface owner and PDC Energy regarding Location ID 305884 wouldn't cover this new development, and a new Surface Use Agreement would need to be agreed upon by all parties.

Tier Classification:

Tier III-B – No Variance required

## **Summary**

Depending on Surface Owner preference and siting collaboration, ALA 1 would likely have fewer overall Residential Building Units within 2,000 feet of the proposed surface disturbance as compared to the A07-01 Pad. However, having the proposed surface development within the same section, and in closer proximity, as the unincorporated town of Galeton and Galeton Elementary School would not be preferred from a siting standpoint. In addition, Informed Consent has been obtained for the Residential Building Units within 500 feet of the A07-01 Pad not party to the Surface Use Agreement; thus, the A07-01 Pad was selected for development over ALA 1.

## **Eliminated Alternative Locations**

### **Alternative Location Analysis 2**

**Location Area:** Township 6 North, Range 64 West, 6<sup>th</sup> P.M.  
Sections: 8 NW/4NW/4  
Weld County, Colorado

**Location's setting and potentially impacted receptors:** (Land use, density of RBUs, HOBUs, proximity to urban development, etc.)

The Alternative Location Analysis ("ALA") described herein reference specific ALA numbers on the attached ALA Map. The ALA Map depicts locations across the OGD; thus, some of the numbered locations on the ALA Map may not be addressed as a potential alternative to the proposed location reviewed in this document. Those ALA numbers from the ALA Map that are not evaluated as part of this document will be reviewed as an ALA for another proposed location within the OGD.

The Alternative Location 2 ("ALA 2") is in a pivot irrigated crop field. Future land use surrounding the proposed oil and gas location is also intended for agricultural production. ALA 2 would likely have twelve total Residential Building Units within 2,000 feet of the proposed location, including six Residential Building Units within the 500-foot buffer of ALA 2. In addition, there would potentially be an opportunity to utilize an existing PDC Energy oil and gas location, being Location ID 305117.

**Potential Impacts to health, safety, welfare, wildlife, and the environment:** (Proximity to floodplains, wetlands, Surface Water Supply Areas, wildlife, distance to BUs, BU ownership, right to construct, DIC, current and future land use, etc.)

ALA 2 is in a pivot irrigated crop field. Future land use surrounding the proposed oil and gas location is also intended for agricultural production. ALA 2 would be further set back from Willow Creek, the Greeley Number 2 Canal, and associated floodplain and wetland features than the A07-01 Pad. There are no High Priority Habitats associated with this respective location.

**Advantages and disadvantages associated with location:** (Consolidate operations, facilities, infrastructure, equipment requirements, access points, roads, routes and transportation, distance to municipal boundaries, local government planning, etc.)

**Advantages:** An advantage of this location is, depending on certain siting preferences and collaboration with the Surface Owner, the ability to have one less total Residential Building Unit within 2,000 feet than the A07-01 Pad. Another potential advantage is that, pending approval from PDC Energy, this location could potentially utilize an already existing oil and gas location (single well Francis 11-8, Location ID 305117).

**Disadvantages:** The main disadvantage of this location is that ALA 2 has six Residential Building Units within 500 feet of the proposed surface development. Additionally, ALA 2 would utilize a location in a different section than the A07-08 Facility, which doesn't allow

for the upmost of consolidations of the overall OGDG footprint; thus, ALA 2 would bring in additional receptors than as currently planned with the A07-01 Pad.

Permitting considerations: (Timing of local or federal permits, etc.)

This location has not been approved under the Weld County Comprehensive 1041 WOGLA process for the Wells Ranch CDP.

Conditions or factors that make the location unavailable:

This location is not covered under a Surface Use Agreement for the contemplated development. Any agreements that were in place with the respective surface owner and PDC Energy regarding Location ID 305117 wouldn't cover this new development, and a new Surface Use Agreement would need to be agreed upon by all parties.

Tier Classification:

Tier III-A – No Variance required

## **Summary**

Depending on Surface Owner preference and siting collaboration ALA 2 could potentially have one less Residential Building Unit within 2,000 feet of the proposed surface disturbance than the A07-01 Pad. However, ALA 2 would have four additional Residential Building Units within 500 feet than the A07-01 Pad. In addition, the ability to consolidate the A07-01 Pad and A07-08 Facility on the same parcel would reduce the total number of potential receptors presented from an overall development standpoint rather than the well pad and production facility separated on two separate parcels as presented with ALA 2. Finally, Informed Consent has been obtained for the Residential Building Units within 500 feet of the A07-01 Pad not party to the Surface Use Agreement; thus, the A07-01 Pad was selected for development over ALA 2.

## **Eliminated Alternative Locations**

### **Alternative Location Analysis 6**

Location Area: Township 6 North, Range 64 West, 6<sup>th</sup> P.M.  
Sections: 9 SE/4NE/4  
Weld County, Colorado

Location's setting and potentially impacted receptors: (Land use, density of RBUs, HOBUs, proximity to urban development, etc.)

The Alternative Location Analysis ("ALA") described herein reference specific ALA numbers on the attached ALA Map. The ALA Map depicts locations across the OGD; thus, some of the numbered locations on the ALA Map may not be addressed as a potential alternative to the proposed location reviewed in this document. Those ALA numbers from the ALA Map that are not evaluated as part of this document will be reviewed as an ALA for another proposed location within the OGD.

The Alternative Location 6 ("ALA 6") is in a pivot irrigated crop field and was contemplated for its ability to potentially develop a portion of the same mineral area as certain wells on the A07-01 Pad. Future land use surrounding the proposed oil and gas location is also intended for agricultural production. This specific field is USDA Certified Organic. ALA 6 would likely have eight Residential Building Units within 2,000 feet of the proposed surface disturbance, including three within the 500-foot buffer of ALA 6.

Potential Impacts to health, safety, welfare, wildlife, and the environment: (Proximity to floodplains, wetlands, Surface Water Supply Areas, wildlife, distance to BUs, BU ownership, right to construct, DIC, current and future land use, etc.)

ALA 6 is in a pivot irrigated crop field. Future land use surrounding the proposed oil and gas location is also intended for agricultural production. This specific field is USDA Certified Organic. There's a Federal Aviation Administration ("FAA") VOR navigation facility in the same section as ALA 6. The FAA VOR navigation facility has height and mechanical safety setbacks associated with its operation. ALA 6 would be in the same section as portions of Howards Lake and the Eaton Ditch, however the hydrologic features are well outside of 2,000 feet from ALA 6. There are no High Priority Habitats associated with this proposed surface development location.

Advantages and disadvantages associated with location: (Consolidate operations, facilities, infrastructure, equipment requirements, access points, roads, routes and transportation, distance to municipal boundaries, local government planning, etc.)

Advantages: A potential advantage of this location is, depending on certain siting preferences and collaboration with the Surface Owner, the ability to have fewer Residential Building Units within 2,000 feet than the A07-01 Pad. Another potential advantage is that, pending approval from PDC Energy, this location could utilize a

previously existing oil and gas location (Location ID 454059 and Location ID 333237). The two PDC Energy operated wells associated with Location ID 333237 appear to be plugged and abandoned.

Disadvantages: A disadvantage to this contemplated location is the one additional Residential Building Unit within 500 feet of ALA 6 as compared to the A07-01 Pad. In addition, the main disadvantage of ALA 6 is the proximity to the FAA VOR navigation facility given the height and mechanical setbacks associated with its safe operation. Furthermore, Noble wouldn't want to disrupt or complicate the Surface Owner's organic certification for current and future agricultural production. Finally, not being able to consolidate operations with the A07-08 Facility within the same OGD area creates inefficient infrastructure development and would require an additional stand-alone facility with additional surface footprint receptors.

Permitting considerations: (Timing of local or federal permits, etc.)

This location has not been approved under the Weld County Comprehensive 1041 WOGLA process for the Wells Ranch CDP.

Conditions or factors that make the location unavailable:

This location is not covered under a Surface Use Agreement for the contemplated development. There are existing PDC Energy locations being Location ID 333237 and Location ID 454059 in close proximity, but a new Surface Use Agreement between Noble Energy and the Surface Owner would need to be agreed upon by all parties to further evaluate this location.

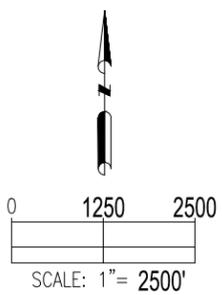
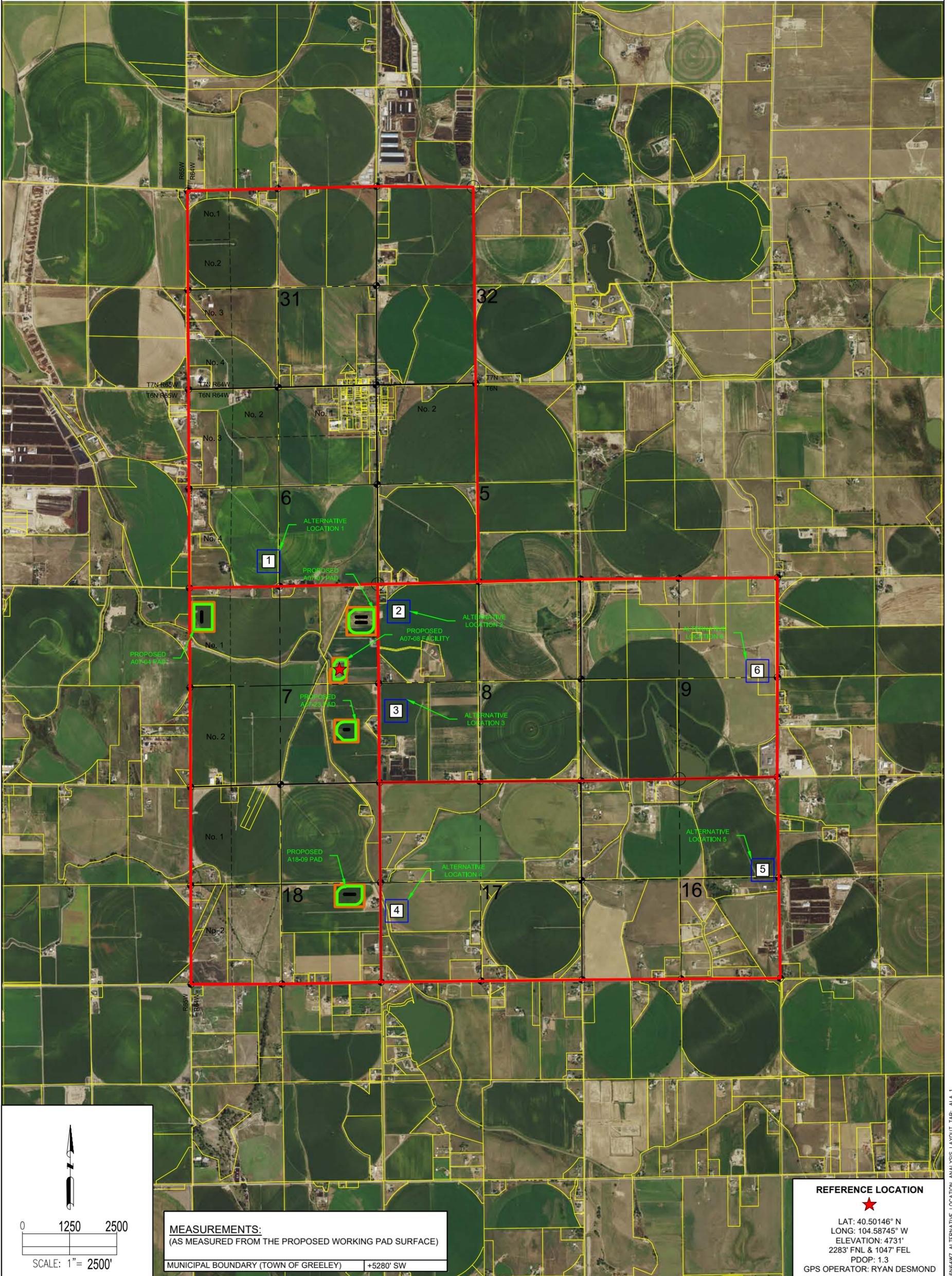
Tier Classification:

Tier III-B – Variance required

## **Summary**

ALA 6 would likely have fewer Residential Building Units within 2,000 feet of the proposed surface disturbance than the A07-01 Pad. However, the inability to consolidate the location with the A07-08 Facility would create an inefficient infrastructure plan with the addition of a separate stand-alone facility and an additional surface footprint. Also, the sensitivities surrounding development near the FAA VOR navigation facility and the USDA Organic Certification resulted in the proposed A07-01 Pad as the more prudent development location for the area. Finally, Informed Consent has been obtained for the Residential Building Units within 500 feet of the A07-01 Pad not party to the Surface Use Agreement; thus, the A07-01 Pad was selected for development over ALA 6.

# OGDP 1 ALTERNATIVE LOCATION ANALYSIS MAP 1



**MEASUREMENTS:**  
(AS MEASURED FROM THE PROPOSED WORKING PAD SURFACE)

MUNICIPAL BOUNDARY (TOWN OF GREELEY)	+5280' SW
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**REFERENCE LOCATION**

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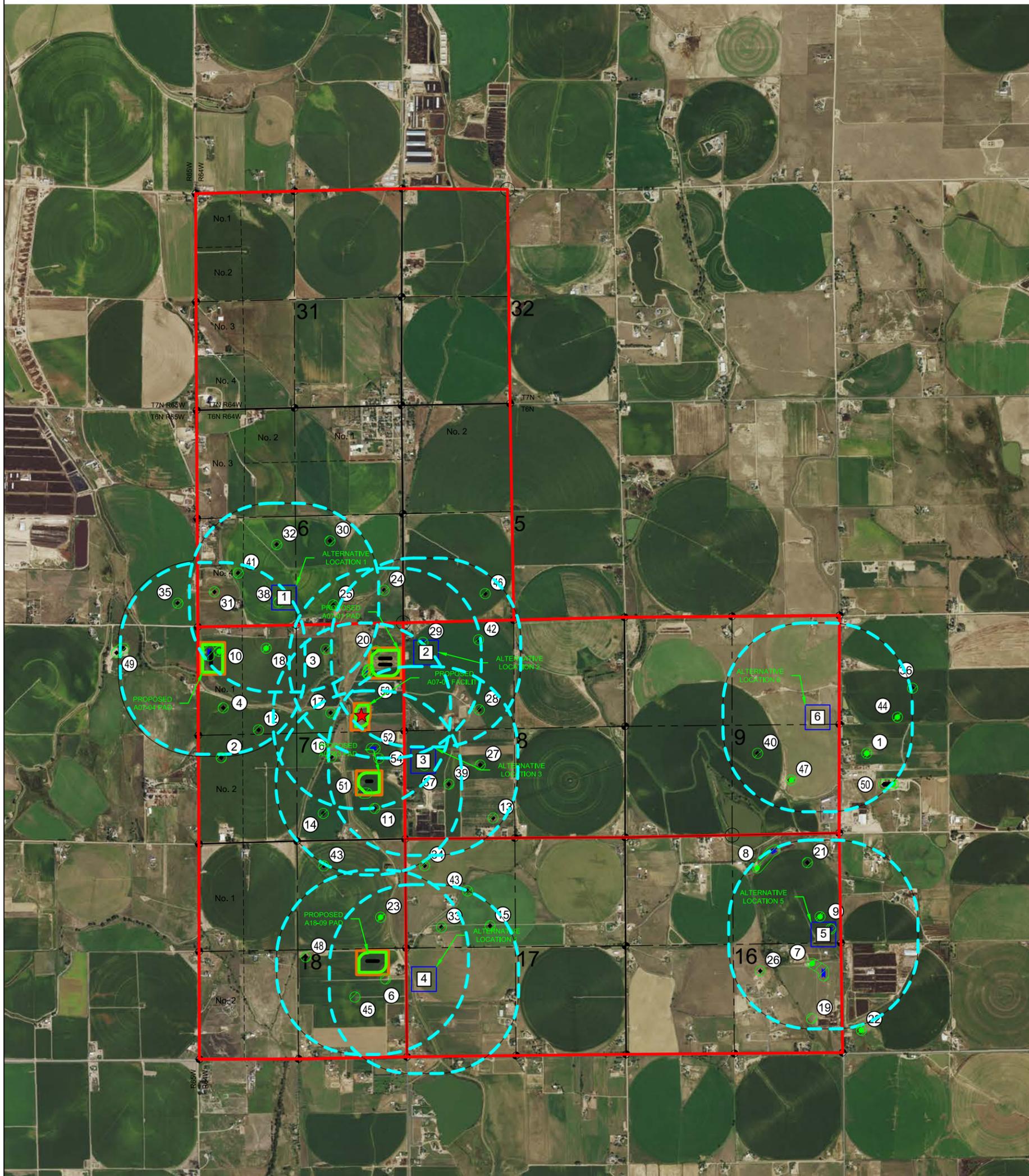
LAT: 40.50146° N  
 LONG: 104.58745° W  
 ELEVATION: 4731'  
 2283' FNL & 1047' FEL  
 PDOP: 1.3  
 GPS OPERATOR: RYAN DESMOND

- LEGEND:**
- ⊕ = EXISTING MONUMENT
  - = CALCULATED POSITION
  - = PROPOSED WELL
  - ▭ (orange) = OIL & GAS LOCATION
  - ▭ (green) = WORKING PAD SURFACE
  - ▭ (yellow) = PROPERTY LINE
  - ▭ (red) = DSU BOUNDARY
  - ▭ (blue) = ALTERNATIVE SITE BOUNDARY
  - ▭ (white with X) = ALTERNATIVE SITE

	FIELD DATE: 04-15-19	DRAWING DATE: 08-02-21	SITE NAME: OGDP 1	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.	PREPARED FOR: 
	DRAWN BY: JDH	CHECKED BY: IJM	SURFACE LOCATION: SEC. 7 & 18, T6N, R64W, 6TH P.M. WELD COUNTY, COLORADO		

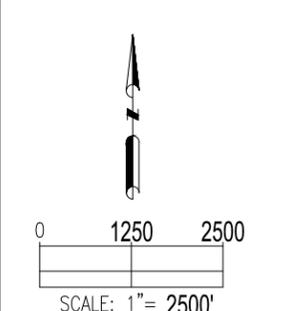
# OGDP 1 ALTERNATIVE LOCATION ANALYSIS MAP 2

SHEET 1 OF 2



**MEASUREMENTS:**  
(AS MEASURED FROM THE PROPOSED WORKING PAD SURFACE)

PROPOSED A07-08 FACILITY	+5280' S (BLOCK ID 081230007051)
PROPOSED A07-23 PAD	+5280' S (BLOCK ID 081230007051)
PROPOSED A18-09 PAD	+5280' S (BLOCK ID 081230007051)
PROPOSED A07-04 PAD	+5280' S (BLOCK ID 081230007051)
PROPOSED A07-01 PAD	+5280' S (BLOCK ID 081230007051)
ALTERNATIVE LOCATION 1	+5280' S (BLOCK ID 081230007051)
ALTERNATIVE LOCATION 2	+5280' S (BLOCK ID 081230007051)
ALTERNATIVE LOCATION 3	+5280' S (BLOCK ID 081230007051)
ALTERNATIVE LOCATION 4	+5280' S (BLOCK ID 081230007051)
ALTERNATIVE LOCATION 5	+5280' S (BLOCK ID 081230007051)
ALTERNATIVE LOCATION 6	+5280' S (BLOCK ID 081230007051)



**REFERENCE LOCATION**

★

LAT: 40.50146° N  
LONG: 104.58745° W  
ELEVATION: 4731'  
2283' FNL & 1047' FEL  
PDOP: 1.3  
GPS OPERATOR: RYAN DESMOND

- LEGEND:**
- ◆ = PRODUCING WELL
  - = OIL & GAS LOCATION
  - = ALTERNATIVE SITE BOUNDARY
  - = EXISTING MONUMENT
  - ✕ = PLANNED WELL
  - ▭ = WORKING PAD SURFACE
  - = CALCULATED POSITION
  - ✕ = PLUGGED & ABANDONED WELL
  - ▭ = DSU BOUNDARY
  - = PROPOSED WELL
  - ✕ = DRY & ABANDONED WELL
  - ▭ = PERMITTED LOCATION
  - ▭ = 2000' BUFFER

DATA SOURCE:  
AERIAL IMAGERY: NAIP 2019  
DISPROPORTIONATELY IMPACTED COMMUNITIES:  
COGCC

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



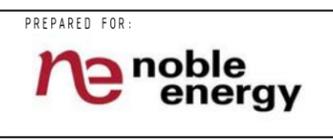
FIELD DATE: 04-15-19  
DRAWN BY: JDH

DRAWING DATE: 08-02-21  
CHECKED BY: IJM

SITE NAME:  
OGDP 1

SURFACE LOCATION:  
SEC. 7 & 18, T6N, R64W, 6TH P.M.  
WELD COUNTY, COLORADO

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PLAT: P:\V06...B2101010\PROD\CA\OGDP 1 6NE4W7 ALTERNATIVE LOCATION ANALYSIS LAYOUT TAB: ALA 2

**OGDP 1**  
**ALTERNATIVE LOCATION ANALYSIS**  
**MAP 2**

Number	Location ID	Location Name	Location Status
1	322948	HEIDENEREICH, OLIVER-FA-66N64W /10NWSW	AC
2	322987	EHRlich-66N64W /7NWSW	AC
3	323223	KREPS-66N64W /7NWNE	AC
4	323224	EHRlich-66N64W /7SWNW	AC
5	323559	WPF III-66N64W /18NWNE	AC
6	326702	FOOSE-66N64W /18NESE	AC
7	326994	JOHNSON /6N64W16D	AC
8	326996	KD /6N64W16R	AC
9	327061	Kerbs /6N64W16W	AC
10	327105	Braskaland /6N64W7F	AC
11	327108	CARLSON-66N64W /7SESE	AC
12	327119	EHRlich-66N64W /7SESW	AC
13	327152	FRANCEN-66N64W /8SESW	AC
14	327166	CARLSON-66N64W /7SWSE	AC
15	330136	AMIGO-66N64W /17SESW	AC
16	330742	CARLSON-66N64W /7NWSE	AC
17	331123	EHRLECH-66N64W /7SWNE	AC
18	331133	KREPS-66N64W /7NENW	AC
19	331382	STATE 81-66N64W /16SESE	AC
20	331423	DYER-66N64W /7NENE	AC
21	331482	STATE 81-66N64W /16NENE	AC
22	331725	KERBS-66N64W /15SWSW	AC
23	331983	CARLSON-66N64W /18SENE	AC
24	332019	KREPS TRUST-66N64W /6SESE	AC
25	332020	KREPS TRUST-66N64W /6SWSE	AC
26	332045	OWL CREEK STATE-66N64W /16NWSE	AC
27	332195	FRANCEN-66N64W /8NESW	AC
28	305115	FRANCIS-66N64W /8SESW	AC
29	305117	FRANCIS-66N64W /8NWNW	AC
30	305173	KREPS-66N64W /6NWSE	AC
31	305192	STEPHENSON-66N64W /6SWSW	AC
32	305193	STEPHENSON-66N64W /6NESW	AC
33	305486	GULLEY-66N64W /17SWNW	AC
34	305487	UHRICH-66N64W /17NWNW	AC
35	305721	BAY-66N65W /1SESE	AC
36	305756	FOSS-66N64W /10SESW	AC
37	305762	MILE HIGH SHEEP-66N64W /8NWSW	AC
38	305884	KREPS-66N64W /6SESW	AC
39	306224	MILE-HI SHEEP-66N64W /8SWSW	AC
40	306349	HOWARD USX A-66N64W /9NWSE	AC
41	306576	KREPS-66N64W /6SWSW	AC
42	302223	FRANCIS-66N64W /8NENW	AC
43	302537	GULLEY /17-25	AC
44	302776	FOSS /10-2-21	AC
45	420665	Foose USX /A18-23	AC
46	422852	DYER USX A /05-14	AC
47	423191	Howard USX /A09-23 Multi	AC
48	427619	FOOSE PC A /18-65HN	AC
49	429310	Holton /31-12	AC
50	432784	Albrighton /10-P Pad	AC
51	446435	Elvera /6N64W7D	AC
52	446663	Carlson /6N64W7SW	AC
53	447851	Bishop /6N64W7C	AC
54	332122	ROY CARLSON-66N64W /7NESE	AC

DATA SOURCE:  
AERIAL IMAGERY: NAIP 2019  
DISPROPORTIONATELY IMPACTED COMMUNITIES:  
COGCC

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



FIELD DATE:  
04-15-19

DRAWN BY:  
JDH

DRAWING DATE:  
08-02-21

CHECKED BY:  
IJM

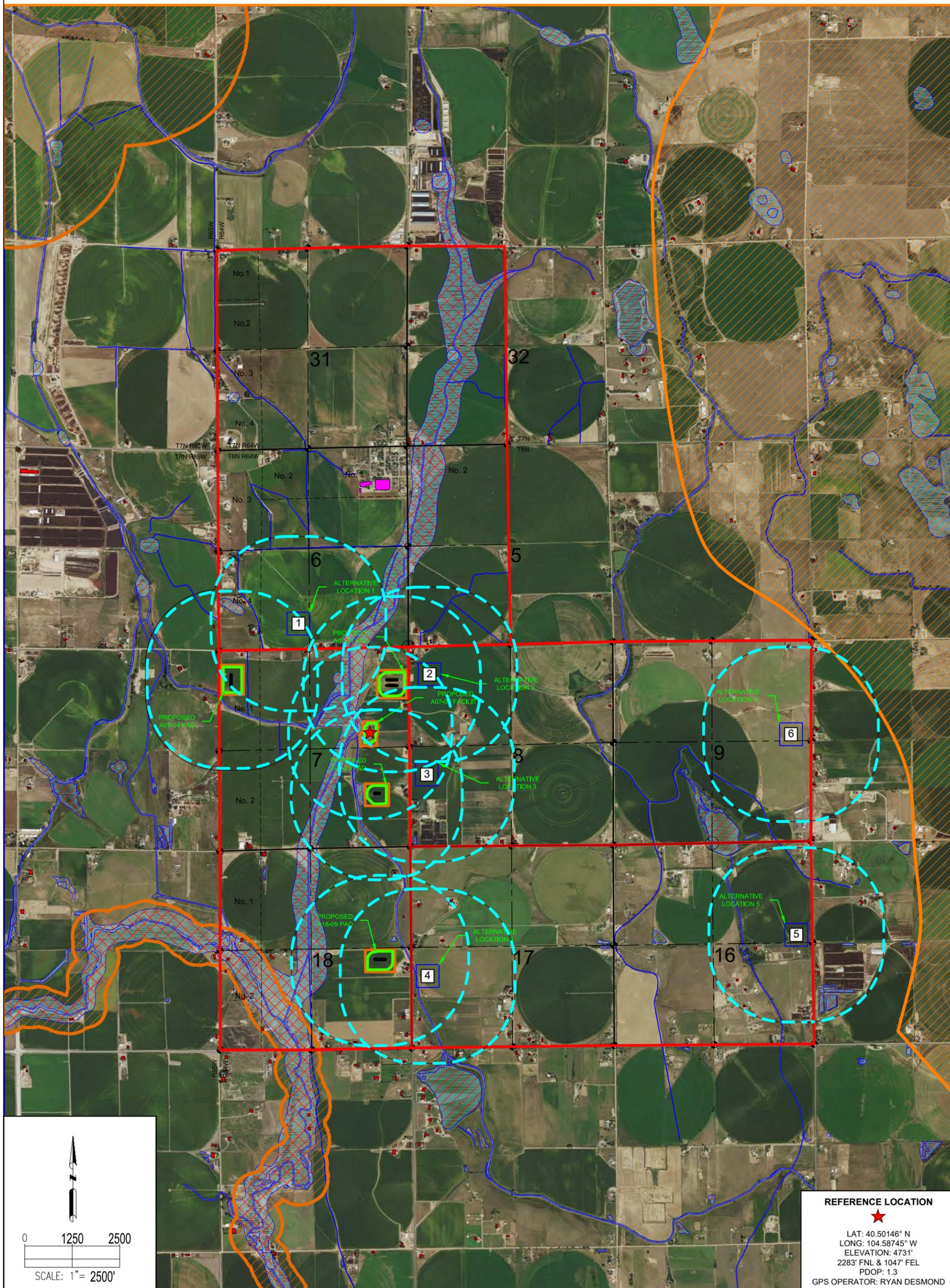
SITE NAME:  
OGDP 1

SURFACE LOCATION:  
SEC. 7 & 18, T6N, R64W, 6TH P.M.  
WELD COUNTY, COLORADO

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# OGDP 1 ALTERNATIVE LOCATION ANALYSIS MAP 3

SHEET 1 OF 2



**REFERENCE LOCATION**  
★  
 LAT: 40.50146° N  
 LONG: 104.58745° W  
 ELEVATION: 4731'  
 2283' FNL & 1047' FEL  
 PDOP: 1.3  
 GPS OPERATOR: RYAN DESMOND

- LEGEND:**
- = OIL & GAS LOCATION
  - = RESIDENTIAL BUILDING UNIT
  - = ALTERNATIVE SITE
  - = WORKING PAD SURFACE
  - = SCHOOL FACILITY
  - = 2000' BUFFER
  - = ALTERNATIVE SITE BOUNDARY
  - = FLOODPLAIN
  - = 2000' BUFFER
  - = DSU BOUNDARY
  - = HIGH PRIORITY HABITAT
  - = WETLAND
  - = EXISTING MONUMENT
  - = CALCULATED POSITION

DATA SOURCE:  
 AERIAL IMAGERY: NAIP 2019  
 DISPROPORTIONATELY IMPACTED COMMUNITIES:  
 COGCC

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



FIELD DATE: 04-15-19  
 DRAWING DATE: 08-02-21  
 DRAWN BY: JDH  
 CHECKED BY: IJM

SITE NAME:  
 OGDP 1  
 SURFACE LOCATION:  
 SEC. 7 & 18, T6N, R64W, 6TH P.M.  
 WELD COUNTY, COLORADO

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.

PREPARED FOR:

PLAT: P:\V08...B2101010\PROD\2A\OGDP 1 6NE4W7 ALTERNATIVE LOCATION ANALYSIS LAYOUT TAB: ALA 3

# OGDP 1 ALTERNATIVE LOCATION ANALYSIS MAP 3

SHEET 2 OF 2

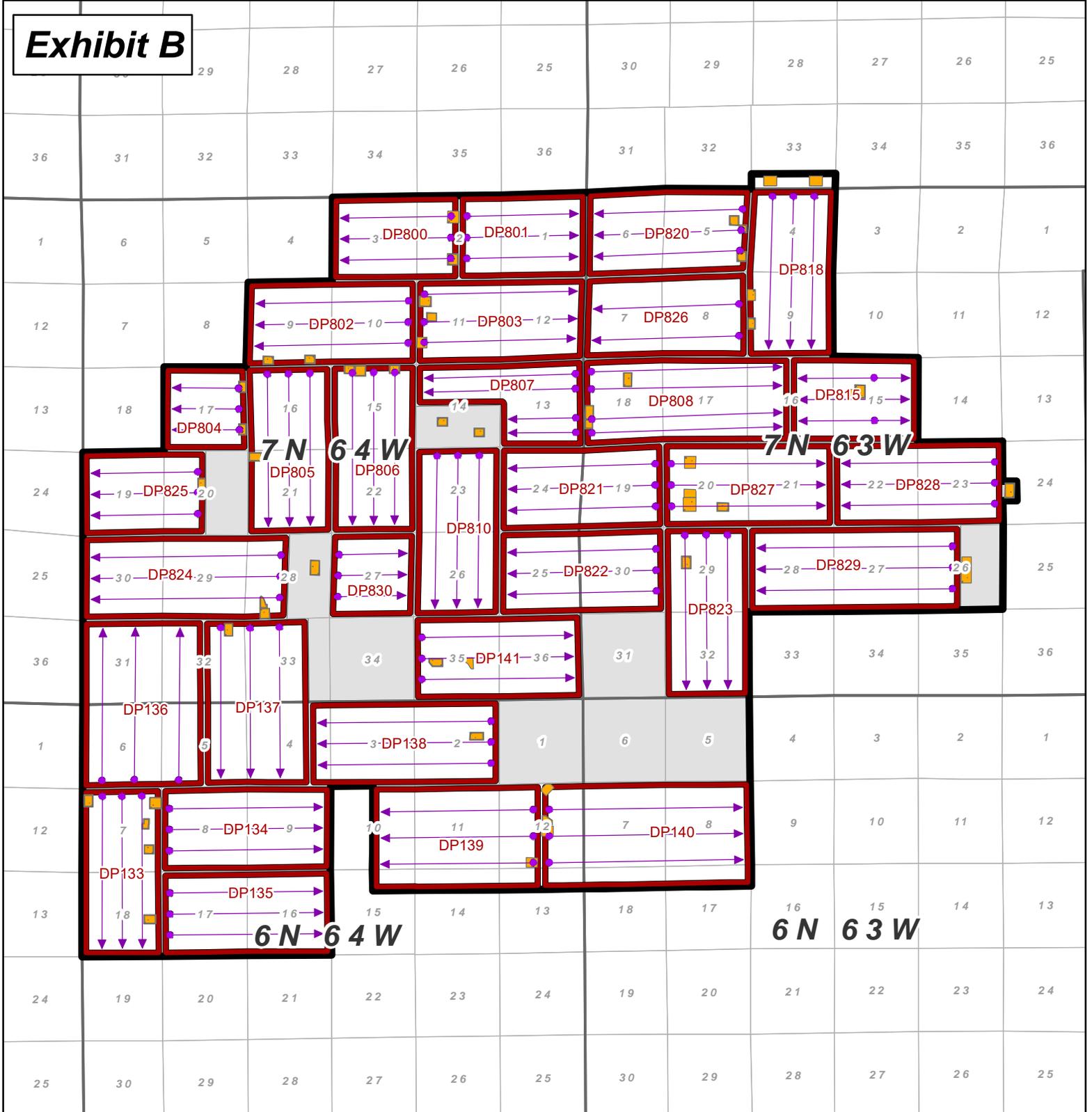
DISTANCES TO NEAREST CULTURAL FEATURE:	ALTERNATIVE LOCATION 1 40.509499, -104.594002	ALTERNATIVE LOCATION 2 40.505798, -104.582001	ALTERNATIVE LOCATION 3 40.498501, -104.582001	ALTERNATIVE LOCATION 4 40.483898, -104.582001	ALTERNATIVE LOCATION 5 40.486599, -104.546997	ALTERNATIVE LOCATION 6 40.501099, -104.547997
BUILDING:	±209' SE	±108' NW	±183' W	±187' S	±103' S	±286' E
RESIDENTIAL BUILDING UNIT:	±360' SE	±145' NW	±255' SW	±187' S	±530' SE	±286' E
HOBU:	±3427' NE	±4635' N	+5280' N	+5280' N	+5280' NW	+5280' NW
DESIGNATED OUTSIDE ACTIVITY AREA:	+5280' SW					
PUBLIC ROAD:	±356' S	±232' W	±138' W	±113' W	±102' E	±219' E
ABOVE-GROUND UTILITY:	±338' S	±274' W	±122' W	±150' W	±85' E	±195' E
RAILROAD:	+5280' W					
PROPERTY LINE:	±368' S	±248' W	±158' W	±126' W	±0'	±0'
SCHOOL FACILITY:	±3427' NE	±4635' N	+5280' N	+5280' N	+5280' NW	+5280' NW
CHILD CARE CENTER:	+5280' W					
BOUNDARY OF DIC:	+5280' S					

ALA CRITERIA:	PROPOSED A07-08 FACILITY 40.50146, -104.587745	PROPOSED A07-23 PAD 40.49718, -104.58686	PROPOSED A18-09 PAD 40.48516, -104.58659	PROPOSED A07-04 PAD 40.50524, -104.60050	PROPOSED A07-01 PAD 40.50538, -104.58520	ALTERNATIVE LOCATION 1 40.509499, -104.594002	ALTERNATIVE LOCATION 2 40.505798, -104.582001	ALTERNATIVE LOCATION 3 40.498501, -104.582001	ALTERNATIVE LOCATION 4 40.483898, -104.582001	ALTERNATIVE LOCATION 5 40.486599, -104.546997	ALTERNATIVE LOCATION 6 40.501099, -104.547997
i. <2,000' FROM RBU OR HOBU	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
ii. <2,000' FROM SCHOOL OR CHILD CARE CENTER	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
iii. <1,500' FROM DESIGNATED OUTSIDE ACTIVITY AREA	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
iv. <2,000' FROM JURISDICTIONAL BOUNDARY AND PLG OBJECTS	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
v. WITHIN FLOODPLAIN	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
vi. aa. WITHIN A SURFACE WATER SUPPLY AREA	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
vi. bb. <2,640' FROM TYPE III OR GUDI WELL	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
vii. WITHIN/IMMEDIATELY UPGRADIENT OF WETLAND OR RIPARIAN	YES	YES	YES	YES	YES	NO	NO	NO	YES	NO	NO
viii. IN HIGH PRIORITY HABITAT AND CPW DID NOT WAIVE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
ix. OPERATOR USING SURFACE BOND	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
x. <2,000' FROM A RBU/HOBU/SCHOOL WITHIN A DIC	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

 <p>8620 Wolff Court Westminster, CO 80031 (303) 928-7128 www.ascentgeomatics.com</p>	FIELD DATE: 04-15-19	DRAWING DATE: 08-02-21	SITE NAME: OGDP 1	DATA SOURCE: AERIAL IMAGERY: NAIP 2019 DIC: COGCC	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.	PREPARED FOR: 
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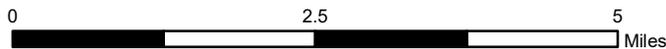
PLAT: P:\NOB...B2101010\PROD\VA\OGDP 1 6166477 ALTERNATIVE LOCATION ANALYSIS LAYOUT TAB: ALA\_3 (pg 2)

# Exhibit B



## Legend

-  Facility and Well Pad Locations
-  Well Direction
-  Development Plan (DP)
-  Comprehensive Drilling Plan (CDP)
-  Excluded Developed Lands



## Wells Ranch CDP Development

Weld County, Colorado

CSR: NAD 1983 UTM Zone 13N

Revised by: jacobfrost

Date: 6/25/2019

Disclaimer: This map has been carefully compiled through different data sources available to Noble Energy Inc. While the information is held to the highest degree of accuracy possible, its uses are for informative purposes only and therefore is not suitable for legal, engineering, and surveying purposes. Noble Energy Inc. does not guarantee nor assume responsibility for misuse or misinterpretation of any information present. Recipient agrees not to reproduce, distribute, nor digitize without expressed consent from Noble Energy Inc. and its affiliates.