



Light Mitigation Plan

Rule 304.c.(3)

Coyote Fed 0397-14

Section 14 T3N R97W 6th P.M.

Moffat County, Colorado

November 2022

Revised December 2022



Coyote Fed 0397-14 Pad

(Coyote Fed 0397-14-3-1 NH, Coyote Fed 0397-14-2-3 NH, Coyote Fed 0397-14-2-4 NH,
Coyote Fed 0397-14-23-13 NH, Coyote Fed 0397-14-23-14 NH,
Coyote Fed 0397-14-2-3 WNH)

Lighting Mitigation Plan COGCC Rule 424.Lighting

Prepared for:



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INTRODUCTION

This lighting mitigation plan has been developed to address the requirements as set forth in COGCC Rule 424.Lighting (400 Series) as required by COGCC Rule 304.c(3).

Description of Coyote Fed 0397-14 Pad

Anschutz Exploration Corporation (Operator No. 3104), to be referred as Anschutz, is completing a Form 2A for an Oil and Gas Location Assessment permit in Moffat County, Colorado. Please refer to the General Vicinity Map found as **Appendix A**. This project consists of the development of a pad with six (6) wells. These wells are the Coyote Fed 0397-14-3-1 NH, Coyote Fed 0397-14-2-3 NH, Coyote Fed 0397-14-2-4 NH, Coyote Fed 0397-14-23-13 NH, Coyote Fed 0397-14-23-14 NH, and Coyote Fed 0397-14-2-3W NH. The Coyote Fed 0397-14 Pad will be a new location developed on private land owned and managed by the John R. Pierce Trust.

Location of Coyote Fed 0397-14 Pad

The site is located on Parcel No. 114914200003 within Moffat County, Colorado. The parcel is located approximately twenty-one (21) miles northwest of Meeker, Colorado. The site is situated along the northwestern edge of this parcel.

Legal Description: NW¼ NW¼, Section 14, T03N-R97W, 6th P.M., Moffat County, Colorado

Location Coordinates: 40.235181, -108.253523 (NAD 83)

Elevation: 5,897 feet

COYOTE FED 0397-14 PAD LIGHTING MITIGATION PLAN (RULE 424.a)

The Coyote Fed 0397-14 Pad Lighting Mitigation Plan (LMP) provides the proposed actions to meet the requirements of COGCC Rule 424.Lighting (400 Series) and Rule 304.c(3). This purpose of this plan is to assess and minimize potential impacts from lighting related to the Coyote Fed 0397-14 Pad project. Following this LMP, Anschutz will ensure adequate control of lighting from these activities, as well as comply with COGCC and local jurisdictional requirements. In addition, Anschutz has experience in applying these lighting control measures throughout their operations. Employees are trained to identify conditions and operate to minimize excessive lighting conditions.

STATEMENT OF EXPERTISE (RULE 424.a(1))

The Drilling Phase and Completions/Flowback Lighting Site Plans and Diagrams were completed by Mr. Scott Norsen and Mr. Walt Niccoli, P.E. with Telesto Solutions Inc. Together they have ten (10) years of experience in the lighting mitigation design.

This Coyote Fed 0397-14 LMP was developed in coordination with Anschutz's Drilling and Completions teams and Regulatory Analyst.

LIGHTING MITIGATION PLAN COMPONENTS (RULE 424.a(2))

Anschutz anticipates lighting will only be utilized during drilling, completions, and flowback activities and will result in a maximum of four hundred and twenty (420) days of lighting.

Table 1. Lighting Activity & Duration

Stage	Avg. Time Interval (days)
Drilling	25 to 30 Days (per well)
Completions/Flowback	7 to 21 Days (per well)
Production	N/A

During these operational phases, personnel will be continuously present onsite. Anschutz will minimize continuous on-site lighting if personnel are not onsite.

PRE-PRODUCTION FACILITY LIGHTING PLAN (RULE 424.a(2)(A))

Pre-production activities will consist of initial grading, drill rig mobilization, drilling, completions, and flowback. Initial grading and drill rig mobilization will be conducted during daylight hours. Pre-production lighting facility plan is detailed in Section 6 of this LMP.

ADEQUATE LIGHTING (RULE 424.a(2)(A)(i))

Adequate lighting will be provided during pre-production activities to ensure the safety of all personnel within the Coyote Fed 0397-14 Pad area. Safety procedures, including lighting, are detailed in the Anschutz Safety Management Program.

PRE-PRODUCTION LIGHTING SPECIFICS (RULE 424.a(2)(A)(ii))

Drilling and facilities construction phase activities may take an estimated maximum of one hundred ninety (190) days for all six (6) wells. Cyclone Drilling, Inc. provided lighting details for the drill rig that will operate at the Coyote Fed 0397-14 Pad. Lighting utilized during drilling activities is located directly on the drill rig, therefore, the lighting is centered within the site perimeter and lighting is cast outward. For safety reasons, lighting may extend slightly beyond the site perimeter. Where possible, lighting will be directed downward and inward to avoid excess lighting beyond the site boundary. The Drill Phase Lighting Site Plan and Diagram (**Appendix B**) was developed using photometric calculations to represent site-specific illumination levels for the Coyote Fed 0397-14 Pad.

Specifications on drill rig lighting fixtures detailing the anticipated location of the drill rig, lighting angles, types of fixtures, and height of application are provided in the Drill Phase Lighting Site Plan Diagram.

During completions and flowback phase activities, the site will be lit to provide adequate lighting for safety of personnel. The completions and flowback activities can take an estimated maximum of one hundred twenty-six (126) days to complete all six (6) wells. While most completion activities occur during daylight, personnel may access the site throughout a 24-hour workday period during the flowback phase. All lighting for completions and flowback operations will be casted downward and inward towards the center of the sight. Lighting will not extend past the perimeter of the working pad. Portable lighting, such as light plants, will be used during this phase. The Completions and Flowback Phase Lighting Figure, depicting the location of lighting equipment within the site perimeter, is provided in **Appendix C**. This includes the lighting equipment specifications.

TEMPORARY LIGHTING FOR SAFETY (RULE 424.a(2)(A)(iii))

In the event that temporary lighting is required, lighting will comply with the applicable standards and rules pursuant to this LMP and COGCC Rules 424.b through 424.f when allowable. In the event of an emergency, Anschutz will place a priority on personal safety and will adhere to Rule 424.a(2)(A)(i) to ensure safety to those both present and accessing the site. Lighting safety standards are stated in the Anschutz Safety Management Program.

PRODUCTION FACILITY LIGHTING PLAN (RULE 424.a(2)(B))

COGCC Rule 424.a(2)(B) is not applicable to the Coyote Fed 0397-14 Pad. This site will not have fixed lighting installed or utilized during the production phase. Production activities are conducted during daylight hours and do not require lighting.

COGCC rule 424.a(2)(B)(iv) is not applicable to the Coyote Fed 0397-14 Pad. A Building Unit, Residential Building Unit, and High Occupancy Building Unit is not within two thousand (2,000) feet of the proposed well pad.

LIGHTING STANDARDS (424.b)

Drilling, Completions, and Flowback activities will require lighting. Lighting is not required during the Production phase. Lighting standards will apply to all lighting usage, including temporary lighting.

DIRECTION OF LIGHTING (424.b(1))

During completions and flowback, lighting will be directed downward and inward to the center of the Coyote Fed 0397-14 Pad. Lighting during the drilling phase will be cast outwards only on necessary points for safety considerations. Where possible, lighting will be directed downward and inwards to avoid excess lighting beyond the working pad boundaries.

The Coyote Fed 0397-14 Pad is not located within two thousand (2,000) feet of a residential building. Drill rig lighting will illuminate the entire drill rig, which is required for a safe working environment.

Lighting will adhere to COGCC Rule 424.a(2)(A)(i). The drill rig lighting is pre-configured to direct lighting for these considerations.

LIGHTING BUFFERS (424.b(2))

Anschutz will utilize appropriate equipment to reduce light intensity outside the Coyote Fed 0397-14 Pad boundaries. For drilling activities, the lighting may cast slightly along and outside the boundary of the proposed working pad surface for safety. Since the site will be graded along the perimeter it is vital for personnel accessing the site during drilling operations to be able to identify the edge of the pad. The extent of the lighting extending beyond the working pad boundary is illustrated in **Appendix B**. Light intensity outside of the pad boundary is minimal and reduces within a short distance from the Coyote Fed 0397-14 Pad boundary.

LIGHTING BMPs (424.b(3))

Anschutz will implement the following BMPs as allowed by COGCC Rule 424.b(3)(D). Lighting is required for drilling, completions, and flowback activities. As noted earlier, production activities will occur during daylight hours and will not require external lighting.

- Utilize low-glare or no-glare lighting wherever possible.
- Conduct lighting inspections to confirm the lighting fixtures are oriented according to this LMP and according to appropriate safety plans.

PRE-PRODUCTION FACILITY LIGHTING (424.c)

Anschutz will require lighting for pre-production activities, including the drilling, completions and flowback phases.

SAFETY (424.c(1))

Adequate lighting will be provided to ensure the safety of all personnel within the Coyote Fed 0397-14 Pad area. Safety procedures, including lighting, are detailed in the Anschutz Safety Management Program.

NOISE BARRIER (424.c(2))

A noise barrier is not proposed for the Coyote Fed 0397-14 Pad. The site is not within two thousand (2,000) feet of a High Occupancy Building Unit nor a Residential Building Unit.

LIGHTING IMPACTS (424.c(3))

This LMP addresses the lighting impacts to the applicable interests or units as defined by COGCC Rule 424.c(3). Anschutz will take all necessary and reasonable precautions to ensure that lighting from the Coyote Fed 0397-14 Pad activities do not unnecessarily impact the health, safety, and welfare of the interests under this rule.

LIGHTING IMPACTS ON RESIDENTIAL OCCUPANCY (424.c(3)(A))

COGCC Rule 424.c(3)(A) is not applicable. The Coyote Fed 0397-14 Pad is not within two thousand (2,000) feet of a High Occupancy Building Unit, Residential Building Unit, nor a Building Unit. No Residential Building Units or High Occupancy Building Units are located within a one-mile radius of the site boundary.

LIGHTING IMPACTS ON MOTORISTS (424.c(3)(B))

The Coyote Fed 0397-14 Pad is located more than a mile from a public road. The site is located approximately 1.9 miles from the nearest public road (BLM Road 1512) and 3.3 miles from the nearest county road (CR-77). The entrance to this subject parcel and the Coyote Fed 0397-14 Pad is shown on the General Vicinity Map (**Appendix A**).

LIGHTING IMPACTS ON WILDLIFE (424.c(3)(C))

The Coyote Fed 0397-14 Pad is located within High Priority Habitat (HPH). Greater sage-grouse, elk, mule deer, pronghorn, and sportfish management waters HPH has been identified within two thousand (2,000) feet of the site. The majority of disturbing activities are proposed to take place outside of the timing stipulation periods associated with these HPH areas. Construction of the facilities and completions is being proposed to take place within the beginning of big game winter stipulation periods for the first year of development (see Wildlife Mitigation Plan). As such, there may be potential for lighting used during the completions phase to impact big game wildlife species present in the HPH area surrounding the Coyote Fed 0397-14 Pad. However, lighting will only be used during a short duration of these activities. Additionally, BMPs and lighting specifications during pre-production activities may aid to further mitigate potential impacts to these species. Lighting will be cast inward and downward towards the center of the site during the completions phase and will not extend beyond the periphery of the pad location. The Coyote Fed 0397-14 HPH Figure is provided in **Appendix D**.

PRODUCTION PHASE LIGHTING (424.d)

Anschutz does not anticipate using lighting during the production phase at the Coyote Fed 0397-14 Pad. Lighting will only be located inside building structures with no external lighting. In the event of an emergency or unforeseen events, Anschutz will adhere to lighting standards as stated in COGCC Rule 424.d.

SAFETY DURING PRODUCTION (424.d(1))

Adequate lighting will be provided to ensure the safety of all personnel within the Coyote Fed 0397-14 Pad area. Production activities are conducted during daylight hours and will not require lighting. In the event of an emergency or unforeseen event, Anschutz will follow the lighting standards within this LMP and the Safety Management Program.

PRODUCTION LIGHTING ZONE (424.d(2))

Production activities are conducted during daylight hours and will not require lighting. In the event of an emergency or unforeseen event, Anschutz will follow the lighting standards within this LMP and the Anschutz Safety Management Program. Should lighting be required during production operation, lighting will not exceed the 1.25 Lumens per square foot of Working Pad Surface for Rural and HPH areas as specified in COGCC Rule 424.d(2).

LOCAL ZONING (424.d(3))

The Coyote Fed 0397-14 Pad is located in Moffat County, Colorado. Moffat County defines the subject parcel as grazing land – agricultural. Adjacent parcels to the subject parcel are zoned grazing land-agricultural or as exempt federal land. The Moffat County Zoning Map (**Appendix E**) provides zoning information and property boundaries for the subject and surrounding parcels.

DIRECTOR DECISION (424.d(3)(A); 424.d(3)(B); & 424.d(3)(C))

The Coyote Fed 0397-14 Pad will be a new location developed on private land owned and managed by the John R. Pierce Trust (Parcel 114914200003). A property agreement has been made between the John R. Pierce Trust and the Anschutz Exploration Corporation.

LIGHTING DURING NON-STAFFED HOURS (424.e)

External lights will only be utilized during drilling, completions, and flowback activities. The stated activities will result in a maximum total of 420 days of lighting for the completion of all six (6) wells. During these operational phases, personnel will be present onsite. Anschutz will minimize continuous on-site lighting if personnel are not onsite. The production phase will not require lighting during routine operations. In the event of an emergency, temporary lighting may be used during the production phase.

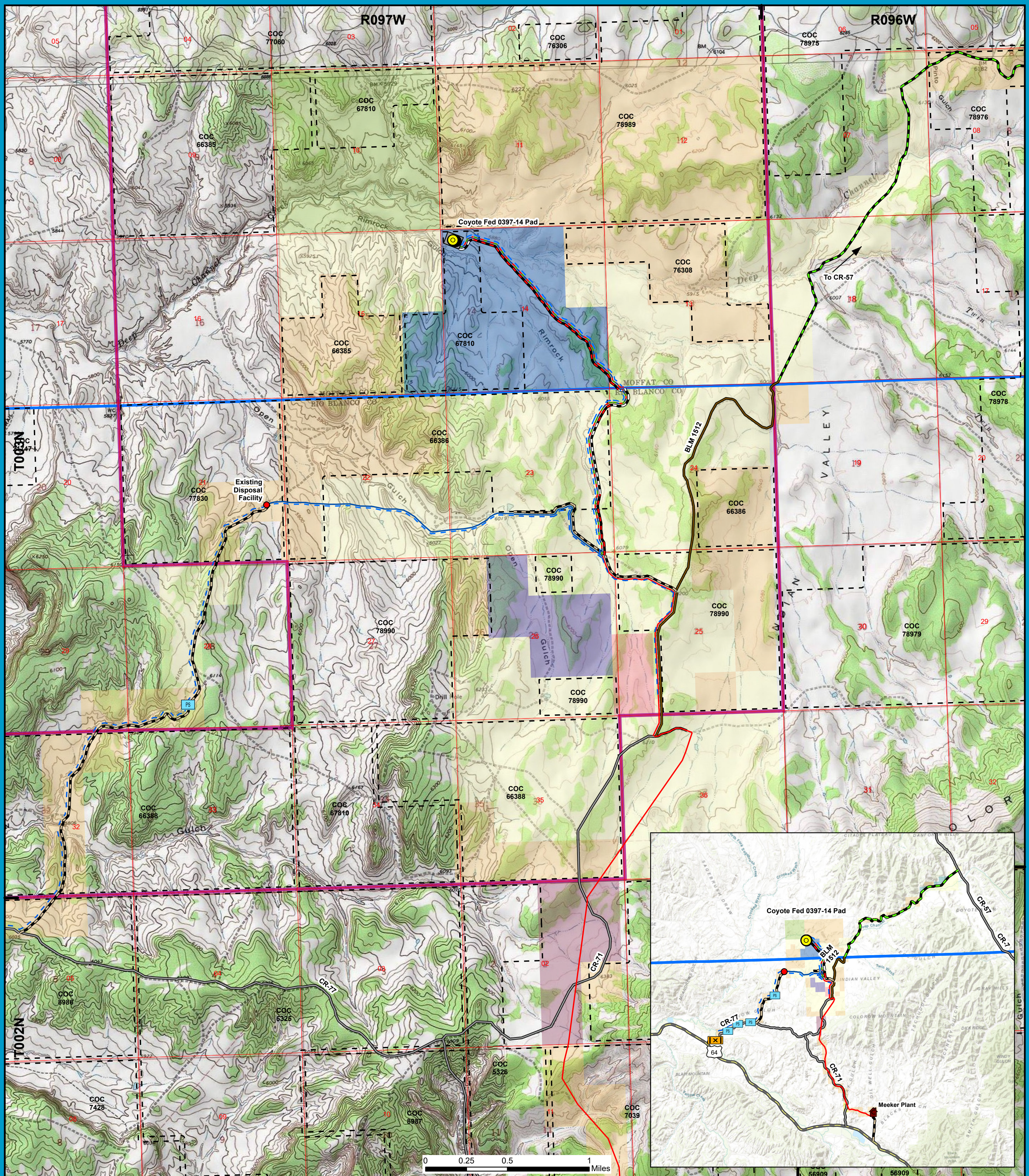
CUMULATIVE IMPACT (424.f)

Impacts from cumulative lighting are not anticipated from the Coyote Fed 0397-14 Pad. The OGDG includes six (6) proposed wells (Coyote Fed 0397-14-3-1 NH, Coyote Fed 0397-14-2-3 NH, Coyote

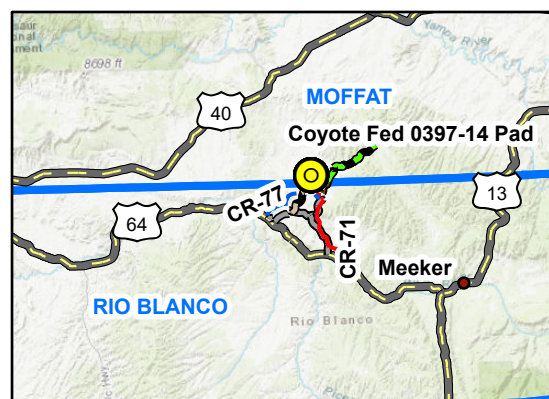
Fed 0397-14-2-4 NH, Coyote Fed 0397-14-23-13 NH, Coyote Fed 0397-14-23-14 NH, and Coyote Fed 0397-14-2-3 WNH). The facility will not require external lighting during production operations and personnel will only access the site during daylight hours. Lighting at the proposed Coyote Fed 0397-14 pad will only occur during drilling, completions, and flowback phases. These activities will not occur simultaneously at this location. The site is not within one mile of a Residential Building Unit nor a High Occupancy Building Unit.

APPENDIX A

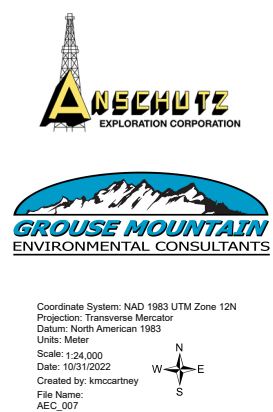
GENERAL VICINITY MAP



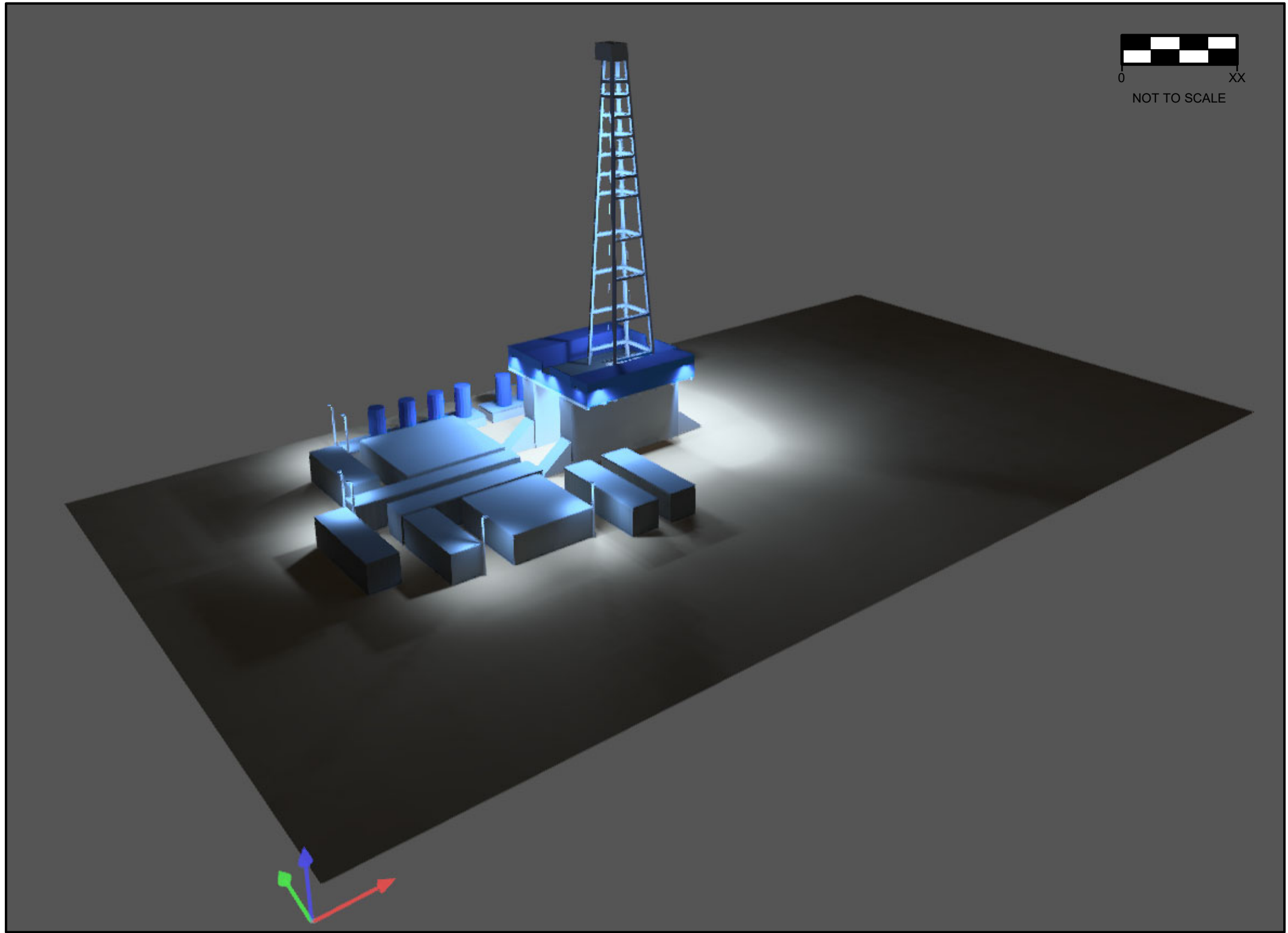
Map 1. Overview- Coyote Fed 0397-14



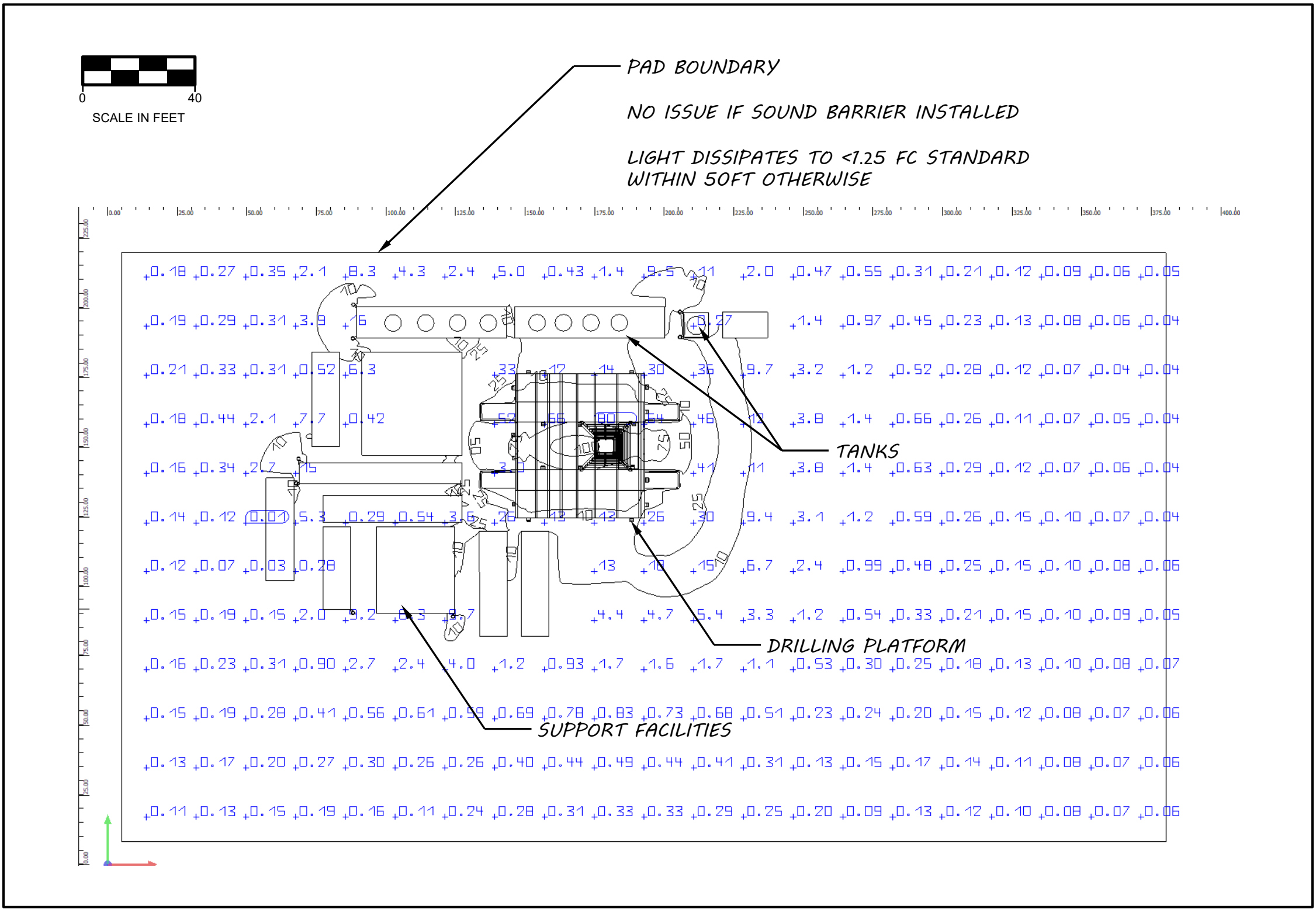
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|--|---|--|---------------------------------------|--|--|--|--|
| | Proposed Oil Well SHL | | Existing BLM Improved Access | | Proposed Improved Access (New Construction);
Proposed Gas Pipe; | | Existing BLM Improved Access;
Gas Piping; |
| | Proposed Oil Pad | | County Road; | | Proposed Temporary Surface Waterline | | Proposed Temporary Surface Waterline |
| | Existing Disposal Facility | | Proposed Temporary Surface Waterline | | Existing Buried Gas Pipeline | | Proposed Improved Access; |
| | Booster Station | | Existing Improved Access; | | Existing Improved Access; | | Proposed Temporary Surface Waterline; |
| | Unit Boundary | | 24' Running Width (No Upgrade Needed) | | Existing Gas Pipe; | | Gas Injection Piping; |
| | ANSCHUTZ EXPLORATION CORPORATION | | Existing Improved Access; | | Proposed Temporary Surface Waterline | | Gas Piping; |
| | BLM | | 14' Running Width (No Upgrade Needed) | | Existing Improved Access; | | Produced Waterline |
| | BUFFALO HORN PROPERTIES, LLC | | Existing BLM Improved Access; | | Proposed Temporary Surface Waterline; | | Existing Unimproved Access; |
| | CORYELL, ANDREW C & | | Gas Piping | | Produced Waterline | | Proposed Temporary Surface Waterline; |
| | FAMILY REAL ESTATE ENTERPRISES, LLC | | Existing Improved Access; | | Proposed Temporary Surface Waterline; | | Gas Injection Piping; |
| | PIERCE, JOHN R REVOCABLE TRUST DATED MAY 12, 2014 | | Proposed Temporary Surface Waterline | | Produced Waterline | | Gas Piping; |
| | SMITH, M. BRITTON & CATHERINE F S | | | | | | Produced Waterline |



APPENDIX B DRILLING PHASE LIGHTING SITE PLAN & DIAGRAM



ISOMETRIC VIEW



SURFACE PHOTOMETRIC RESULTS (FC)

Luminaire list						
Φ _{beam}		P _{total}	Luminous efficacy			
765688 lm		5380.0 W	128.2 lm/W			
pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
18	Dialight	F1UN7B2F xxxxxx	ProSite LED Floodlight 30000 Lumens, NEMA 7x6 Distribution, No Lens Cover	234.0 W	31952 lm	136.5 lm/W
8	Dialight	HEAMC4 DNKCC	Safelite LED High Bay 9650 Lumens, Medium Distribution, Tempered Glass Lens	89.2 W	10128 lm	113.5 lm/W
16	Dialight	LF03C4K2 W	Safelite LED Low Profile Linear 6700 Lumens 4 Foot, Medium Distribution, Diffused Polycarbonate Lens	65.9 W	6908 lm	104.8 lm/W

Product data sheet


Dialight - ProSite LED Floodlight 30000 Lumens, NEMA 7x6 Distribution, No Lens Cover

	
Article No.	F1UN7B2Fxxxxxx
P	234.0 W
Φ _{lumens}	31952 lm
Luminous efficacy	136.5 lm/W
CCT	5000 K
CRI	85

ProSite LED Floodlight
31,950 Lumens
234 Watts AC / 30-00W DC
100-277V AC
Cool White, TCSCE
Tempered and Polycarbonate Lenses
No Lens Cover
UL 1598A
CMAA C12.2 No. 120
NEMA
NEMA 7x6 Distribution
9650W
LM79 Tested E2 File

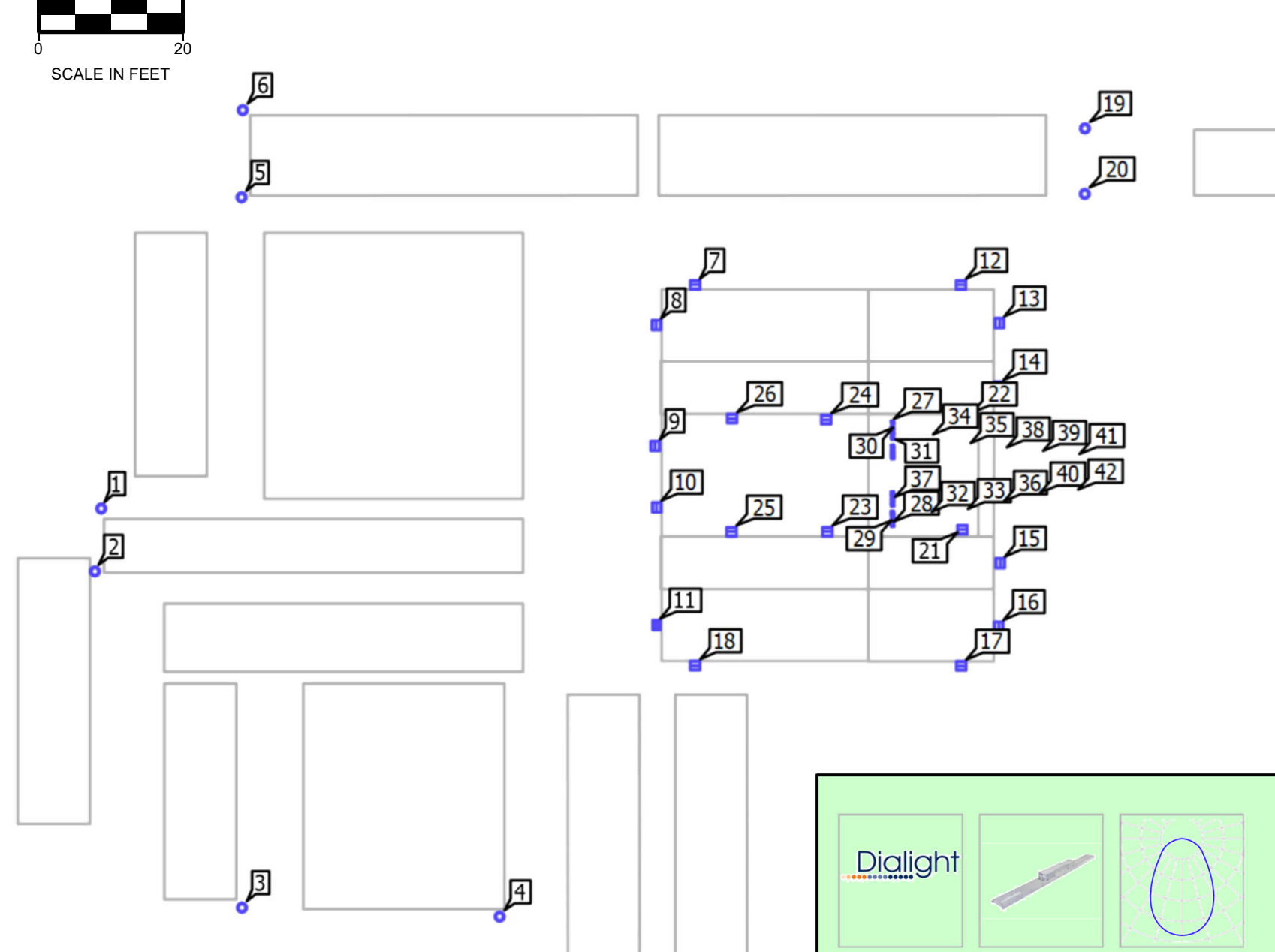
Product data sheet

Dialight - Safelite LED High Bay 9650 Lumens, Medium Distribution, Tempered Glass Lens

	
Article No.	HEAMC4DNKCC
P	89.2 W
Φ _{lumens}	10128 lm
Luminous efficacy	113.5 lm/W
CCT	5000 K
CRI	75

Safelite LED High Bay
9,650 Lumens
89 Watts
100-277V AC
80-100W DC
Cool White, TCSCE
Tempered Glass Lens
IESCAWTD Zone 1, 2, 3
IESCAWTD Zone 2, 3, 4
CE
ABS Design Assessed (pending)
RoHS Compliant
IESCA 845.10.07-04
RoHS/REACH
Ex II 2 Ex II Ex

LUMINAIRE LIST AND SPECIFICATIONS

Lighting Plan						
						
ALL LIGHTS PARALLEL THE HORIZONTAL DOWNWARD						
ALL LIGHTS PARALLEL MAST AT ROUGHLY 3° FROM VERTICAL						
ALL FLOODS ANGLED AT 20° TO THE HORIZONTAL EXCEPT FLOOD NO 11, WHICH IS AT 45°						

LIGHTING PLAN

LEGEND / NOTES

PHOTOMETRIC CALCULATIONS:

LIGHTING PATTERN AND INTENSITIES ARE FROM TESTING CONDUCTED IN A LABORATORY SETTING. ACTUAL FIELD PERFORMANCE MAY VARY BASED ON INSTALLATION AND CLIMATIC CONDITIONS

CALCULATIONS BASED POINT-TO-POINT METHOD USING DIALUX LIGHTING SOFTWARE

1FC = 1 LUMEN/FT²

EXTERIOR LIGHTING CONCEPTS:

MINIMUM 0.2 FC RECOMMENDED FOR OPEN PARKING AREAS. 2.5 FC MINIMUM FOR ACTIVE WORKING AREAS

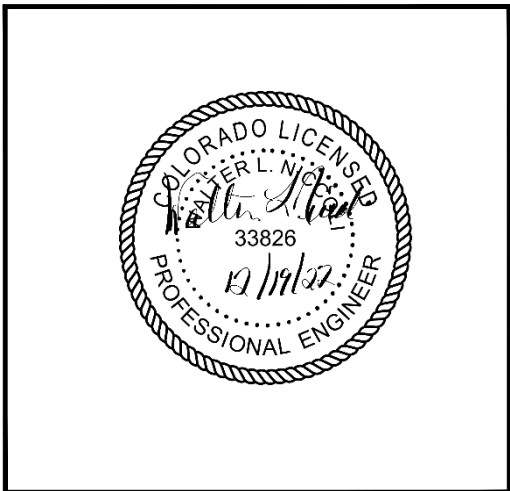
NO OTHER BUILDINGS WITHIN 2,000 FEET. THUS MAINTAIN 1.25 FC RURAL STANDARD (2 COR 404-1) BEYOND FACILITY BOUNDARY

SITE LOCATION:

Legal Description: NW¼ NW¼, Section 14, T03N-R97W, 6th P.M., Moffat County, Colorado

Location Coordinates: 40.235181, -108.253623 (NAD 83)

Working Pad Area = 212,659.92 ft²



REVISIONS				
#	DESCRIPTION	DATE	BY	APPROVED
1	FOR REVIEW	8/18/22	WLN	WLN
2	FINAL	12/19/22	WLN	WLN

DATE	12/19/22
PROJECT	117100-001
TASK NUMBER	01
DRAWN BY	W. NICCOL
PROJECT ENGINEER	W. NICCOL
CHECKED BY	W. NICCOL

ANSHTZ EXPLORATION COMPANY

COYOTE 0397-14 DRILL PAD LIGHTING

ISOMETRIC SITE AND LIGHTING PLAN PHOTOMETRIC RESULTS

SHEET NUMBER: B.1 **REVISION NUMBER:** 1

PREPARED BY: TELESTO SOLUTIONS INCORPORATED

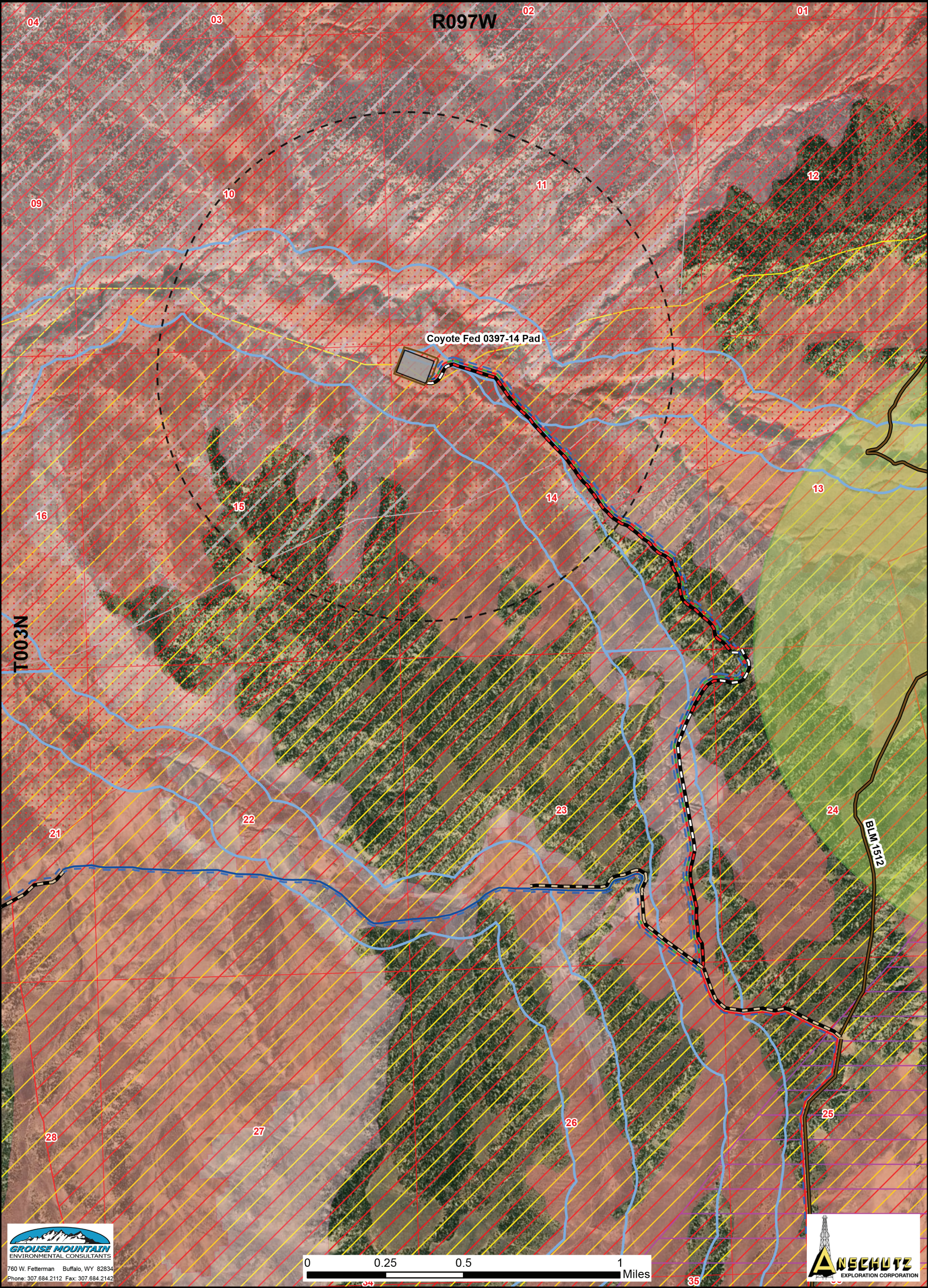
PREPARED FOR: GROUSE MOUNTAIN ENVIRONMENTAL CONSULTANTS

APPENDIX C

COMPLETIONS & FLOWBACK LIGHTING FIGURE AND LIGHTING SPECIFICATIONS

APPENDIX D

HPH MAP



GROUSE MOUNTAIN
ENVIRONMENTAL CONSULTANTS
760 W. Fetterman Buffalo, WY 82834
Phone: 307.684.2112 Fax: 307.684.2142

ANSCHUTZ
EXPLORATION CORPORATION

Map 2. Wildlife High Priority Habitat- Coyote Fed 0397-14

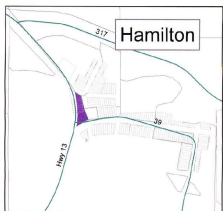
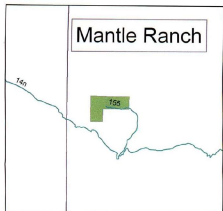
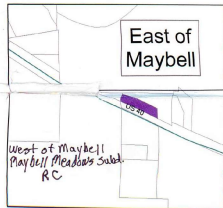
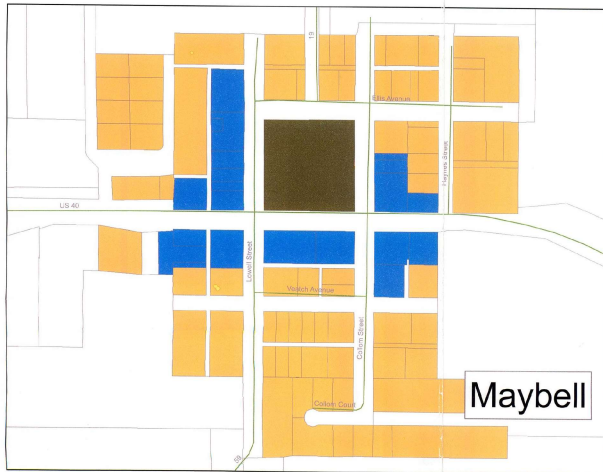
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|--|--|--|---|
| Proposed Oil Well Pad | Existing Buried Gas Pipeline | Proposed Improved Access; Proposed Temporary Surface Waterline; Gas Injection Piping; Gas Piping; Produced Waterline | Greater Sage-grouse Lek Site- 1 mile NSO |
| Surface Disturbance Boundary | Existing Improved Access; Existing Gas Pipe; Proposed Temporary Surface Waterline | Existing Unimproved Access; Proposed Temporary Surface Waterline; Gas Injection Piping; Gas Piping; Produced Waterline | Greater Sage-grouse Priority Habitat Mgmt. Area |
| One-mile Buffer of Proposed Pad | Existing Improved Access; Proposed Temporary Surface Waterline; Produced Waterline | Existing BLM Improved Access; Proposed Temporary Surface Waterline | Greater Sage-grouse General Habitat Mgmt. Area |
| Existing BLM Improved Access | Proposed Temporary Surface Waterline; Produced Waterline | Existing Improved Access; Proposed Temporary Surface Waterline; Gas Injection Piping; Gas Piping; Produced Waterline | Elk Severe Winter Range |
| Existing Improved Access; 24' Running Width (No Upgrade Needed) | Existing BLM Improved Access; Gas Piping; Proposed Temporary Surface Waterline | Existing Improved Access; Proposed Temporary Surface Waterline; Gas Injection Piping; Gas Piping; Produced Waterline | Elk Production Area |
| Existing BLM Improved Access; Gas Piping | Proposed Improved Access (New Construction); Proposed Gas Pipe; Proposed Temporary Surface Waterline | Greater Sage-grouse General Habitat Mgmt. Area | Pronghorn Winter Concentration Area |
| Proposed Improved Access (New Construction); Proposed Gas Pipe; Proposed Temporary Surface Waterline | | Mule Deer Winter Concentration Area | Elk Winter Concentration Area |
| | | Sportfish Management Waters | |

Coordinate System: NAD 1983 UTM Zone 12N
Projection: Transverse Mercator
Datum: North American 1983
Units: Meter
Scale: 1:18,000
Date: 10/6/2022
Created by: kmccarthy
File Name: AEC_007

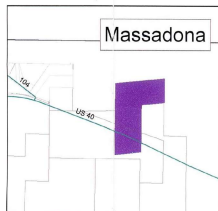
APPENDIX E

MOFFAT COUNTY ZONING MAP

Moffat County Zoning Map



- Zones**
- A
 - B
 - C
 - HI
 - LI
 - MH1
 - O
 - R1
 - R2
 - RC
 - RR



Disclaimer: This map is for Planning purposes.
The information presented was obtained from the adopted
1978 revised zoning map and approved zone change resolutions.
Map produced by the Moffat County Planning Department 5/7/09

