

State of Colorado  
Oil and Gas Conservation Commission1120 Lincoln Street, Suite 801, Denver, Colorado 80203  
Phone: (303) 894-2100 Fax: (303) 894-2109

Document Number:

402125101

(SUBMITTED)

Date Received:

09/28/2021

Location ID:

Expiration Date:

## Oil and Gas Location Assessment

This Oil and Gas Location Assessment is to be submitted to the COGCC for approval prior to any ground disturbance activity associated with oil and gas operations. Approval of this Oil and Gas Location Assessment will allow for the construction of the below specified Location; however, it does not supersede any land use rules applied by the local land use authority. Please see the COGCC website at <https://cogcc.state.co.us/> for all accompanying information pertinent this Oil and Gas Location Assessment.

☒ New Location ☐ Refile ☐ Amend Existing Location # \_\_\_\_\_

If this Location assessment is a component of an Oil and Gas Development Plan (OGDP) application, enter the OGDP docket number(s).

| Docket Number | OGDP ID | OGDP Name |
|---------------|---------|-----------|
| 210900159     |         |           |

If this Location assessment is part of an existing Oil and Gas Development Plan, enter the OGDP ID number(s).

&lt;No existing OGDP number provided&gt;

## CONSULTATION

- ☐ This location is included in a Comprehensive Area Plan (CAP). CAP ID # \_\_\_\_\_
- ☐ This Location or its associated new access road, utility, or Pipeline corridor meets Rule 309.e.(2).A, B, or C.
- ☐ This Location is within 2,640 feet of a GUDI or Type III Well per Rule 411.b.(4).
- ☐ This Location includes a Rule 309.e.(2).E variance request.
- ☐ This location includes a Rule 309.f.(1).A.ii. variance request.

## Operator

Operator Number: 100322

Name: NOBLE ENERGY INC

Address: 1001 NOBLE ENERGY WAY

City: HOUSTON State: TX Zip: 77070

## Contact Information

Name: Mosiah Montoya

Phone: (303) 249 2425

Fax: ( )

email: mo.montoya@chevron.com

## FINANCIAL ASSURANCE

☒ Plugging and Abandonment Bond Surety ID (Rule 706): 20030009 ☐ Gas Facility Surety ID (Rule 711): \_\_\_\_\_☐ Waste Management Surety ID (Rule 704): \_\_\_\_\_

## LOCATION IDENTIFICATION

Name: AB32-01 Number: Pad

Provide the location description and the latitude and longitude of a single point near the center of the Working Pad Surface as a reference for this Location.

QuarterQuarter: NENE Section: 32 Township: 7N Range: 64W Meridian: 6 Ground Elevation: 4812

Latitude: 40.535220 Longitude: -104.568600

GPS Quality Value: 1.3 Type of GPS Quality Value: PDOP Date of Measurement: 06/03/2019

## RELATED REMOTE LOCATIONS

(Enter as many Related Locations as necessary. Enter the Form 2A document # only if there is no established COGCC Location ID#)

**This proposed Oil and Gas Location is:** LOCATION ID # FORM 2A DOC #

Well Site is served by Production Facilities 402122648

## RELEVANT LOCAL GOVERNMENT SITING INFORMATION

County: WELD Municipality: N/A

Per § 34-60-106 (1)(f)(I)(A), the following questions pertain to the "Relevant Local Government approval of the siting of the proposed oil and gas location."

This proposed Oil and Gas Location is in an area designated as one of State interest and subject to the requirements of § 24-65.1-108, C.R.S. Yes

Does the Relevant Local Government regulate the siting of Oil and Gas Locations, with respect to this location? Yes

A siting permit application has been submitted to the Relevant Local Government for this proposed Oil and Gas Location: No

Date Relevant Local Government permit application submitted: \_\_\_\_\_

Current status or disposition of the Relevant Local Government permit application for this proposed Oil and Gas Location: Other

Status/disposition date: \_\_\_\_\_

If Relevant Local Government permit has been approved or denied, attach final decision document(s).

Provide the contact information for the Relevant Local Government point of contact for the local permit associated with this proposed Oil and Gas Location:

Contact Name: Jason Maxey

Contact Phone: 970 400 3579

Contact Email: oged@weldgov.com

## PROXIMATE LOCAL GOVERNMENT INFORMATION

For every Proximate Local Government (PLG) associated with this proposed Oil and Gas Location, provide the PLG's point of contact and their contact information.

< No row provided >

## FEDERAL PERMIT INFORMATION

A Federal drilling permit (or related siting application) has been submitted for this proposed Oil and Gas Location: No

Date submitted: \_\_\_\_\_

Current status or disposition of the Federal drilling permit (or related siting application) for this proposed Oil and Gas Location: \_\_\_\_\_

Status/disposition Date: \_\_\_\_\_

If Federal agency permit has been approved or denied, attach the final decision document(s).

Provide the contact information of the Federal point of contact for the Federal permit associated with this proposed Oil and Gas Location.

Contact Name: \_\_\_\_\_

Contact Phone: \_\_\_\_\_

Contact Email: \_\_\_\_\_

Field Office: \_\_\_\_\_

Additional explanation of local and/or federal process:

A 1041 WOGLA was filed for the CDP as 1041WOGLA19-0042 on 12/10/2019 and recorded at reception #4556398 on 1/8/2020. Site-specific supplemental information will be filed prior to commencement of operations.

## RELEVANT LOCAL GOVERNMENT OR FEDERAL PRE-APPLICATION CONSULTATION

Complete this section for any pre-application consultation related to this proposed Oil and Gas Location that occurred prior to the submission of this Form 2A. If a pre-application Formal Consultation Process occurred, attach a Consultation Summary.

Did a pre-application Formal Consultation Process occur with the Relevant Local Government per Rule 301.f.(3)? No

Date of local government consultation: \_\_\_\_\_

Did a pre-application Formal Consultation Process occur with the Federal land manager per Rule 301.f.(3)? No

Date of federal consultation: \_\_\_\_\_

Was an ALA that satisfies Rule 304.b.(2).C (or substantially equivalent information per Rule 304.e) developed during a federal or local government permit application process? If yes, attach the ALA to the Form 2A. No

## ALA APPLICABILITY AND CRITERIA

Complete this section for any pre-application consultation related to this proposed Oil and Gas Location that occurred prior to the submission of this Form 2A. If a pre-application Formal Consultation Process occurred, attach a Consultation Summary.

Does the proposed Oil and Gas Location meet any of the criteria listed in Rule 304.b.(2)B? Yes

If YES, indicate by checking the box for every Rule 304.b.(2).B criterion met by this proposed Location, and attach an ALA. See Rule 304.b.(2).B.i-x for full text of criteria.

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> i. WPS < 2,000 feet from RBU/HOBU                                   | <input type="checkbox"/> vi.aa. WPS within a surface water supply area                                  |
| <input type="checkbox"/> ii. WPS < 2,000 feet from School/Child Care Center                             | <input type="checkbox"/> vi.bb. WPS < 2,640 feet from Type III or GUDI well                             |
| <input type="checkbox"/> iii. WPS < 1,500 feet from DOAA  | <input checked="" type="checkbox"/> vii. WPS within/immediately upgradient of wetland/riparian corridor |
| <input type="checkbox"/> iv. WPS < 2,000 feet from jurisdictional boundary and PLG objects/requests ALA | <input type="checkbox"/> viii. WPS within HPH and CPW did not waive                                     |
| <input type="checkbox"/> v. WPS within a Floodplain   | <input type="checkbox"/> ix. Operator using Surface bond  |
|   | <input type="checkbox"/> x. WPS < 2,000 feet from RBU/HOBU/School within a DIC                          |

Is the proposed Oil and Gas Location within the exterior boundaries of the Southern Ute Indian Reservation, and the Tribe objects to the Location or requests an ALA? If YES, attach an ALA to the Form 2A. No

Operator requests the Director waive the ALA requirement per Rule 304.b.(2).A.i: ☐

Provide an explanation for the waiver request, and attach supporting information (if necessary).

## ALTERNATIVE LOCATIONS DASHBOARD

List every alternative location reviewed and included in the ALA. Provide a latitude and longitude for the approximate center of the alternative location, all Rule 304.b.(2).B Criteria met, if a variance would be required to permit the location, and a brief comment on the key points of the alternative location.

304.b.(2).B.i-x Criteria Met:

| # | latitude  | longitude   | i | ii | iii | iv | v | vi | vii | viii | ix | x | Variance Required? | Comments  |
|---|-----------|-------------|---|----|-----|----|---|----|-----|------|----|---|--------------------|-----------|
| 1 | 40.535570 | -104.557460 | x |    |     |    |   |    | x   |      |    |   |                    | Tier IV-A |
| 2 | 40.538180 | -104.577610 | x |    |     |    |   |    | x   |      |    |   |                    | Tier IV-B |
| 3 | 40.538190 | -104.572880 | x |    |     |    |   |    | x   |      |    |   |                    | Tier IV-A |

## SURFACE & MINERAL OWNERSHIP

Surface Owner Info:

Name: Dean B Westerman Phone: \_\_\_\_\_  
Address: 36775 COUNTY ROAD 53 WELD Fax: \_\_\_\_\_  
Address: \_\_\_\_\_ Email: ryan.antonio@chevron.com  
City: Eaton State: CO Zip: 80615-9616

Name: Tuesday L Westerman Phone: \_\_\_\_\_  
Address: 36775 COUNTY ROAD 53 WELD Fax: \_\_\_\_\_  
Address: \_\_\_\_\_ Email: ryan.antonio@chevron.com  
City: Eaton State: CO Zip: 80615-9616

Surface Owner at this Oil and Gas Location: ☒ Fee ☐ State ☐ Federal ☐ Indian

Check only one: ☐ The Operator/Applicant is the surface owner.  
☒ The Operator has a signed Surface Use Agreement for this Location – attach SUA.  
☐ All operations on this Oil & Gas Location will develop the minerals beneath the Location, and the surface owner owns the minerals beneath this Location and is committed to an oil and gas lease – attach lease map or provide lease description.  
☐ All operations on this Oil & Gas Location will develop the minerals beneath the Location, and the Operator intends to use a surface bond per Rule 703 to secure access to this Location – attach lease map or provide lease description.

Surface Owner protection Financial Assurance type: N/A Surety ID Number: \_\_\_\_\_

Mineral Owner beneath this Oil and Gas Location: ☒ Fee ☐ State ☐ Federal ☐ Indian

Minerals beneath this Oil and Gas Location will be developed from or produced to this Oil and Gas Location: Yes

Lease description if necessary: \_\_\_\_\_

## SITE EQUIPMENT LIST

Indicate the number and type of major equipment components planned for use on this Oil and Gas Location:

|                               |                              |                                |                          |                                       |
|-------------------------------|------------------------------|--------------------------------|--------------------------|---------------------------------------|
| Wells <u>5</u>                | Oil Tanks <u>0</u>           | Condensate Tanks <u>0</u>      | Water Tanks <u>0</u>     | Buried Produced Water Vaults <u>0</u> |
| Drilling Pits <u>0</u>        | Production Pits <u>0</u>     | Special Purpose Pits <u>0</u>  | Multi-Well Pits <u>0</u> | Modular Large Volume Tank <u>0</u>    |
| Pump Jacks <u>0</u>           | Separators <u>0</u>          | Injection Pumps <u>0</u>       | Heater-Treaters <u>0</u> | Gas Compressors <u>0</u>              |
| Gas or Diesel Motors <u>0</u> | Electric Motors <u>0</u>     | Electric Generators <u>0</u>   | Fuel Tanks <u>0</u>      | LACT Unit <u>0</u>                    |
| Dehydrator Units <u>0</u>     | Vapor Recovery Unit <u>0</u> | VOC Combustor <u>0</u>         | Flare <u>0</u>           | Enclosed Combustion Devices <u>0</u>  |
| Meter/Sales Building <u>2</u> | Pigging Station <u>0</u>     | Vapor Recovery Towers <u>0</u> |                          |                                       |

## OTHER PERMANENT EQUIPMENT

| Permanent Equipment Type | Number |
|--------------------------|--------|
| Chemical Injection Skids | 4      |
| Communication Tower      | 1      |
| Manifold                 | 1      |
| Solar Skids              | 3      |
| Multi-Phase Flowmeters   | 5      |

## OTHER TEMPORARY EQUIPMENT



|                          |        |
|--------------------------|--------|
| Temporary Equipment Type | Number |
| Minion Tank              | 1      |

## GAS GATHERING COMMITMENT

Operator commits to connecting to a gathering system by the Commencement of Production Operations? Yes

If the answer is NO, a Gas Capture Plan consistent with the requirements of Rule 903.e MUST be attached on the Plans tab.

## FLOWLINE DESCRIPTION

Per Rule 304.b.(6), provide a description of all onsite and off-location oil, gas, and/or water flowlines.

5 (5): 2"-4" Steel Three Phase Flowlines  
Seven (7): 2"-4" Steel Gas Lift Lines  
Three (3): 3"-8" Temporary Fresh Water Poly Lines

## CULTURAL DISTANCE AND DIRECTION

Provide the distance and direction to the nearest cultural feature as measured from the edge of the Working Pad Surface.

|   | Distance |      | Direction | Rule 604.b Conditions Satisfied<br>(check all that apply): |                                     |                          | Details of Condition(s)     | 604.b.<br>(4)            |
|---|----------|------|-----------|--|-------------------------------------|--------------------------|-----------------------------|--------------------------|
|   |          |      |           | 604.b.<br>(1)  | 604.b.<br>(2)                       | 604.b.<br>(3)            |                             |                          |
| Building:   | 135      | Feet | W         |  |                                     |                          |                             |                          |
| Residential Building Unit (RBU):                        | 616      | Feet | SE        | <input type="checkbox"/>                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Location is in approved CDP | <input type="checkbox"/> |
| High Occupancy Building Unit(HOBU)                      | 5280     | Feet | SW        | <input type="checkbox"/>                                   | <input type="checkbox"/>            | <input type="checkbox"/> |                             | <input type="checkbox"/> |
| Designated Outside Activity Area:                       | 5280     | Feet | SW        |  |                                     |                          |                             |                          |
| Public Road:  | 288      | Feet | N         |  |                                     |                          |                             |                          |
| Above Ground Utility:                                   | 221      | Feet | W         |  |                                     |                          |                             |                          |
| Railroad:   | 5280     | Feet | W         |  |                                     |                          |                             |                          |
| Property Line:  | 82       | Feet | W         |  |                                     |                          |                             |                          |
| School Facility:  | 5280     | Feet | SW        |  |                                     |                          |                             |                          |
| Child Care Center:                                      | 5280     | Feet | SW        |  |                                     |                          |                             |                          |
| Disproportionately Impacted (DI)<br>Community:          | 5280     | Feet | W         |  |                                     |                          |                             |                          |
| RBU, HOBU, or School Facility<br>within a DI Community. | 5280     | Feet | W         | <input type="checkbox"/>                                   | <input type="checkbox"/>            | <input type="checkbox"/> |                             | <input type="checkbox"/> |

## RULE 604.a.(2). EXCEPTION LOCATION REQUEST

☐ Operator requests an Exception Location Request from Rule 604.a.(2) [well is less than 150 feet from a property line]. Exception Location Request Letter and Waiver signed by offset Surface Owner(s) must be attached.

## CULTURAL FEATURE INFORMATION REQUIRED BY RULE 304.b.(3).B.

Provide the number of each Cultural feature identified within the following distances, as measured from the Working Pad Surface:

|                                   | 0-500 feet | 501-1,000 feet | 1,001-2,000 feet |
|-----------------------------------|------------|----------------|------------------|
| Building Units                    | 0          | 2              | 9                |
| Residential Building Units        | 0          | 2              | 9                |
| High Occupancy Building Units     | 0          | 0              | 0                |
| School Properties                 | 0          | 0              | 0                |
| School Facilities                 | 0          | 0              | 0                |
| Designated Outside Activity Areas | 0          | 0              | 0                |

## CONSTRUCTION

Size of disturbed area during construction in acres: 9.80

Size of location after interim reclamation in acres: 2.10

Estimated post-construction ground elevation: 4814

## DRILLING PROGRAM

Will a closed-loop drilling system be used? Yes

Is H2S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No If YES, attach H2S Drilling Operations Plan.

Will salt sections be encountered during drilling: No

Will salt based (>15,000 ppm Cl) drilling fluids be used? No

Will oil based drilling fluids be used? Yes

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Method: Commercial Disposal

Cutting Disposal: OFFSITE Cuttings Disposal Method: Commercial Disposal

Other Disposal Description:

Beneficial reuse or land application plan submitted? No

Reuse Facility ID: \_\_\_\_\_ or Document Number: \_\_\_\_\_

Centralized E&P Waste Management Facility ID, if applicable: \_\_\_\_\_

## CURRENT LAND USE

Current Land Use: check all that apply per Rule 304.b.(9).

Crop Land: ☒ Irrigated ☐ Non-Irrigated ☐ Conservation Resource Program (CRP)

Non-Crop Land: ☐ Rangeland ☐ Forestry ☐ Recreation ☐ Other

Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

Describe the current land use:

farming

Describe the Relevant Local Government's land use or zoning designation:

Near-Urban Planning Area

Describe any applicable Federal land use designation:

N/A

## FINAL LAND USE

Final Land Use: check all that apply per Rule 304.b.(9).

Crop Land: ☒ Irrigated ☐ Non-Irrigated ☐ Conservation Resource Program (CRP)

Non-Crop Land: ☐ Rangeland ☐ Forestry ☐ Recreation ☐ Other

Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

## REFERENCE AREA INFORMATION

If Final Land Use includes Non-Crop Land (as checked above), the following information is required:

Describe landowner's designated final land use(s):

Reference Area Latitude: \_\_\_\_\_

Reference Area Latitude: \_\_\_\_\_

Provide a list of plant communities and dominant vegetation found in the Reference Area.

< No row provided >

Noxious weeds present: No

## SOILS

List all soil map units that occur within the maximum extent of the proposed Oil and Gas Location. Attach the National Resource Conservation Service (NRCS) report showing the "Map Unit Description" listing the typical vertical soil profile(s). This data is to be used when segregating topsoil.

The required information can be obtained from the NRCS website at <https://www.nrcs.usda.gov/wps/portal/nrcs/surveylist/soils/survey/state/> or from the COGCC website GIS Online map page. Instructions are provided within the COGCC website help section.

NRCS Map Unit Name: 4 - Aquolls and Aquepts, flooded 51

NRCS Map Unit Name: 56 - Renohill clay loam, 0 to 3 percent slopes

NRCS Map Unit Name: \_\_\_\_\_

## GROUNDWATER AND WATER WELL INFORMATION

Provide the distance and direction, as measured from the Working Pad Surface, to the nearest:

water well: 2714 Feet W

Spring or Seep: 5280 Feet W

Estimated depth to shallowest groundwater that can be encountered at this Oil and Gas Location: 12 Feet

Basis for estimated depth to and description of shallowest groundwater occurrence:

Location is sensitive due to proximity to surface water features and depth to groundwater.  
Depth to groundwater taken from supplemental information from LAW WELL 2 (0107417).

## SURFACE WATER AND WETLANDS

Provide the distance and direction to the nearest downgradient surface Waters of the State, as defined 0 Feet W

in the 100-Series Rules, measured from the Working Pad Surface:

If less than 2,640 feet, is the Waters of the State identified above within 15 stream miles upstream of a Public Water System intake? No

Provide the distance and direction to the nearest downgradient wetland, measured from the Working Pad Surface: 0 Feet W

Provide a description of the nearest downgradient surface Waters of the State:

Mapped Seasonal intermittent streambed and associated wetland do not exist within farmed portion of parcel.

If the proposed Oil and Gas Location is within a Rule 411.a Surface Water Supply Area buffer zone, select the buffer zone type: \_\_\_\_\_

Public Water System Administrator - Contact Name \_\_\_\_\_ Email \_\_\_\_\_

If the proposed Oil and Gas Location is within a Rule 411.b GUDI/Type III buffer zone, select the buffer zone type: \_\_\_\_\_

Public Water System Administrator - Contact Name \_\_\_\_\_ Email \_\_\_\_\_

Is a U.S. Army Corps of Engineers Section 404 permit required for the proposed Oil and Gas Location, access road, or associated pipeline corridor? No

If a U.S. Army Corps of Engineers Section 404 permit is required, provide the permit status, and permit number if available:

Is the Location within a Floodplain? No Floodplain Data Sources Reviewed (check all that apply):

☒ Federal (FEMA) ☐ State ☐ County ☐ Local

☐ Other

Does this proposed Oil and Gas Location lie within a Sensitive Area for water resources, as defined in the 100-Series Rules? Yes

## CONSULTATION, WAIVERS, AND EXCEPTIONS

When Rule 309.e.(2) Consultation must occur, check all that apply:

- ☐ This location is included in a Wildlife Mitigation Plan
- ☐ This Oil and Gas Location or associated new access road, utility, or pipeline corridor falls within federally designated critical habitat or an area with a known occurrence for a federal or Colorado threatened or endangered species. Provide description in Comments section of Submit tab.
- ☐ This Oil and Gas Location or associated new access road, utility, or pipeline corridor falls within an existing conservation easement established wholly or partly for wildlife habitat. Provide description in Comments section of Submit tab.

When Rule 309.e.(3) Consultation is not required, check all that apply:

- ☐ This Oil and Gas Location has been included in a previously approved, applicable Wildlife Protection Plan.
- ☐ This Oil and Gas Location has been included in a previously approved, applicable Wildlife Mitigation Plan.
- ☐ This Oil and Gas Location has been included in a previously approved, applicable conservation plan.

Pre-application Consultation:

- ☒ A pre-application consultation with CPW, regarding this Oil and Gas Location, occurred 06/29/2021 on:

### CPW Waivers and Exceptions (check all that apply and attach all CPW waivers to this Form 2A):

- ☐ The applicant has obtained a Rule 304.b.(2).B.viii CPW waiver for the requirement to complete an ALA.
- ☐ The applicant has obtained a Rule 309.e.(2).G CPW waiver and consultation is not required.
- ☐ The applicant has obtained a Rule 309.e.(5).D.i CPW waiver and is requesting an exception from Rule 1202.c.(1).R.
- ☐ The applicant has obtained a Rule 309.e.(5).D.ii CPW waiver and is requesting an exception from Rule 1202.c.(1).S.
- ☐ The applicant has obtained a Rule 309.e.(5).D.iii CPW waiver of Rule 1202.c.(1).T.
- ☐ The applicant has obtained a Rule 309.e.(5).D.iv CPW waiver and is requesting an exception from Rule 1202.c.(1) in accordance with an approved CAP.
- ☐ The applicant has obtained a Rule 1202.a CPW waiver.
- ☐ The applicant has obtained a Rule 1202.b CPW waiver.



☐ In accordance with Rule 1203.a.(3), the applicant requests an exception from compensatory mitigation  
Rule(s): \_\_\_\_\_

## HIGH PRIORITY HABITAT AND COMPENSATORY MITIGATION

This Oil and Gas Location, associated access roads, utility, or Pipeline corridor falls wholly or partially within the following High Priority Habitats (Note: dropdown options are abbreviated - see Rule 1202 for full rule text):

< No row provided >

The following questions are for Oil and Gas Locations that cause the density to exceed one Oil and Gas Location per square mile in Rule 1202.d High Priority Habitat:

Direct Impacts:

Is Compensatory Mitigation required per Rule 1203.a for this Oil and Gas Location? No

Is a Compensatory Mitigation Plan proposed to address direct impacts for this Oil and Gas Location? No

Have all Compensatory Mitigation Plans been approved for this Location? No

If not, what is the current status of each Plan?

N/A.

Is a Compensatory Mitigation Fee proposed for this Oil and Gas Location? No

Direct impact habitat mitigation fee amount: \$ \_\_\_\_\_

Indirect Impacts:

Is Compensatory Mitigation required per Rule 1203.d for this Oil and Gas Location? No

Is a Compensatory Mitigation Plan proposed to address indirect impacts for this Oil and Gas Location? No

Have all Compensatory Mitigation Plans been approved for this Location? No

If not, what is the current status of each Plan?

N/A.

Is a Compensatory Mitigation Fee proposed for this Oil and Gas Location? No

Indirect impact habitat mitigation fee amount: \$ \_\_\_\_\_

## Operator Proposed Wildlife BMPs

No BMP

## AIR QUALITY MONITORING PROGRAM

Will the Operator install and administer an air quality monitoring program at this Location? Yes

## Operator Proposed BMPs

No BMP

## PLANS

Total Plans Uploaded: 15

- ☐ (1) Emergency Spill Response Program consistent with the requirements of Rules 411.a.(4).B, 411.b.(5).B, & 602.j
- ☒ (2) Noise Mitigation Plan consistent with the requirements of Rule 423.a
- ☒ (3) Light Mitigation Plan consistent with the requirements of Rule 424.a
- ☒ (4) Odor Mitigation Plan consistent with the requirements of Rule 426.a
- ☒ (5) Dust Mitigation Plan consistent with the requirements of Rule 427.a
- ☒ (6) Transportation Plan
- ☒ (7) Operations Safety Management Program consistent with the requirements of Rule 602.d
- ☒ (8) Emergency Response Plan consistent with the requirements of Rule 602.j
- ☐ (9) Flood Shut-In Plan consistent with the requirements of Rule 421.b.(1)
- ☐ (10) Hydrogen Sulfide Drilling Operations Plan consistent with the requirements of Rule 612.d
- ☒ (11) Waste Management Plan consistent with the requirements of Rule 905.a.(4)
- ☐ (12) Gas Capture Plan consistent with the requirements of Rule 903.e
- ☒ (13) Fluid Leak Detection Plan
- ☒ (14) Topsoil Protection Plan consistent with the requirements of Rule 1002.c
- ☒ (15) Stormwater Management Plan consistent with the requirements of Rule 1002.f
- ☒ (16) Interim Reclamation Plan consistent with the requirements of Rule 1003
- ☒ (17) Wildlife Plan consistent with the requirements of Rule 1201
- ☒ (18) Water Plan
- ☒ (19) Cumulative Impacts Plan
- ☐ (20) Community Outreach Plan
- ☐ (21) Geologic Hazard Plan

## VARIANCE REQUESTS

Check all that apply:

- ☐ This proposed Oil and Gas Location requires the approval of a Rule 502.a variance from COGCC Rule or Commission

Order number: \_\_\_\_\_

ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).

## RULE 304.d LESSER IMPACT AREA EXEMPTION REQUESTS

Check the boxes below for all Exemptions being requested. Lesser Impact Area Exemption Request must be attached, and will include all requested exemptions.

- |  |  |
|--|--|
| <input type="checkbox"/> 304.b.(1). Local Government Siting Information      | <input type="checkbox"/> 304.c.(1). Emergency Spill Response Program           |
| <input type="checkbox"/> 304.b.(2). Alternative Location Analysis            | <input type="checkbox"/> 304.c.(2). Noise Mitigation Plan                      |
| <input type="checkbox"/> 304.b.(3). Cultural Distances                       | <input type="checkbox"/> 304.c.(3). Light Mitigation Plan                      |
| <input type="checkbox"/> 304.b.(4). Location Pictures                        | <input type="checkbox"/> 304.c.(4). Odor Mitigation Plan                       |
| <input type="checkbox"/> 304.b.(5). Site Equipment List                      | <input type="checkbox"/> 304.c.(5). Dust Mitigation Plan                       |
| <input type="checkbox"/> 304.b.(6). Flowline Descriptions                    | <input type="checkbox"/> 304.c.(6). Transportation Plan                        |
| <input type="checkbox"/> 304.b.(7). Drawings                                 | <input type="checkbox"/> 304.c.(7). Operations Safety Management Program       |
| <input type="checkbox"/> 304.b.(8). Geographic Information System (GIS) Data | <input type="checkbox"/> 304.c.(8). Emergency Response Plan                    |
| <input type="checkbox"/> 304.b.(9). Land Use Description                     | <input type="checkbox"/> 304.c.(9). Flood Shut-In Plan                         |
| <input type="checkbox"/> 304.b.(10). NRCS Map Unit Description               | <input type="checkbox"/> 304.c.(10). Hydrogen Sulfide Drilling Operations Plan |
| <input type="checkbox"/> 304.b.(11). Best Management Practices               | <input type="checkbox"/> 304.c.(11). Waste Management Plan                     |
| <input type="checkbox"/> 304.b.(12). Surface Owner Information               | <input type="checkbox"/> 304.c.(12). Gas Capture Plan                          |
| <input type="checkbox"/> 304.b.(13). Proximate Local Government              | <input type="checkbox"/> 304.c.(13). Fluid Leak Detection Plan                 |
| <input type="checkbox"/> 304.b.(14). Wetlands                                | <input type="checkbox"/> 304.c.(14). Topsoil Protection Plan                   |
| <input type="checkbox"/> 304.b.(15). Schools and Child Care Centers          | <input type="checkbox"/> 304.c.(15). Stormwater Management Plan                |
|  | <input type="checkbox"/> 304.c.(16). Interim Reclamation Plan                  |
|  | <input type="checkbox"/> 304.c.(17). Wildlife Plan                             |
|  | <input type="checkbox"/> 304.c.(18). Water Plan                                |
|  | <input type="checkbox"/> 304.c.(19). Cumulative Impacts Plan                   |
|  | <input type="checkbox"/> 304.c.(20). Community Outreach Plan                   |
|  | <input checked="" type="checkbox"/> 304.c.(21). Geologic Hazard Plan           |

## OPERATOR COMMENTS AND SUBMITTAL

|          |  |
|----------|--|
| Comments | <p>Operator is committed to connecting to a gathering system by the Commencement of Production Operations.</p> <p>One (1) 67' diameter, 20,000 bbl Minion Tank will be on location for 4 months.</p> <p>Pad Soil type(s): 56 - Renohill clay loam, 0 to 3 percent slopes; 4 – Aquolls and Aquepts, flooded</p> <p>Access Soil type(s)*: 56 – Renohill clay loam, 0 to 3 percent slopes</p> <p>Pipeline Corridor Soil type(s)*: 56 - Renohill clay loam, 0 to 3 percent slopes; 4 – Aquolls and Aquepts, flooded; 37 – Nelson fine sandy loam, 0 to 3 percent slopes</p> <p>*NRCS data is not accurate at scale for access roads and pipeline corridor.</p> <p>The following 304.c Plans are Not required for this submittal:</p> <ul style="list-style-type: none"><li>• Emergency Spill Response Program; not near Type III or GUDI well.</li><li>• Flood Shut-In Plan; not in floodplain</li><li>• Hydrogen Sulfide Drilling Plan; no H2S in area</li><li>• Gas Capture Plan; Operator is committed to a gathering system connection</li><li>• Community Outreach Plan; no DIC within 2,000'</li></ul> |
|----------|--|

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: \_\_\_\_\_ Date: 09/28/2021 Email: regulatory@ascentgeomatics.com

Print Name: Ann Feldman Title: Regulatory Manager

Based on the information provided herein, this Oil and Gas Location Assessment complies with COGCC Rules, applicable orders, and SB 19-181 and is hereby approved.

COGCC Approved: \_\_\_\_\_ Director of COGCC Date: \_\_\_\_\_

### **Conditions Of Approval**

All representations, stipulations and conditions of approval stated in this Form 2A for this location shall constitute representations, stipulations and conditions of approval for any and all subsequent operations on the location unless this Form 2A is modified by Sundry Notice, Form 4 or an Amended Form 2A.

#### **COA Type**

#### **Description**

### **Best Management Practices**

#### **No BMP/COA Type**

#### **Description**

|   |                      |  |
|---|----------------------|--|
| 1 | Planning             | Noble shall consolidate wells to create multi-well pads. Multi-well production facilities shall be located as far as possible from Building Units. <ul style="list-style-type: none"><li>• The pad shall be constructed in such a manner that noise mitigation may be installed and removed without disturbing the site or landscaping.</li><li>• Pads shall have all weather access roads to allow for operator and emergency response.</li></ul>   |
| 2 | Planning             | Noble shall identify the location of the wellbore with a permanent monument as specified in Rule 319.a.(5). The operator shall also inscribe or imbed the well number and date of plugging upon the permanent monument.  |
| 3 | Planning             | Lighting on well pad locations is considered temporary and will be used during drilling, completion and construction activities. Temporary lighting will be directed downward, inward, and shielded towards location to avoid glare on public roads and building units within 2,000 feet. Lighting will be turned off when practical, i.e., no operations being conducted.   |
| 4 | General Housekeeping | All surface trash, debris, scrap or discarded material connected with the operations of the property shall be removed from the premises or disposed of in a legal manner.  |
| 5 | General Housekeeping | Within ninety (90) days after a well is plugged and abandoned, the well site shall be cleared of all non-essential equipment, trash, and debris.   |
| 6 | General Housekeeping | Housekeeping will consist of neat and orderly storage of materials and fluids. Wastes will be temporarily stored in sealed containers and regularly collected and disposed of at offsite, suitable facilities. If spills occur prompt cleanup is required to minimize any commingling of waste materials with stormwater runoff. Routine maintenance will be limited to fueling and lubrication of equipment. Drip pans will be used during routine fueling and maintenance to contain spills or leaks. Any waste product from maintenance will be containerized and transported offsite for disposal or recycling. There will be no major equipment overhauls conducted onsite. Equipment will be transported offsite for major overhauls. Cleanup of trash and discarded materials will be conducted at the end of each work day. Cleanup will consist of patrolling the roadway, access areas, and other work areas to pick up trash, scrap debris, other discarded materials, and any contaminated soil. These materials will be disposed of properly. |
| 7 | Wildlife             | Per Rule 322, Noble shall provide for the development of multiple reservoirs by drilling on existing pads or by multiple completions or commingling in existing wellbores. Noble's Wells Ranch CDP development is confined to a specific disturbance corridor, per landowner requirements. Noble does not plan to drill any development areas from an existing disturbance.  |



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|----|--|--|
| 8  | Wildlife                               | <p>Noble initiates multiple levels of Environmental Site Screening efforts for the protection of sensitive wildlife, vegetation, groundwater and surface water resources at every Wells Ranch CDP project area. Prior to construction, a comprehensive desktop survey and field-based wildlife clearance survey will be performed to determine the presence of seasonally protected raptor and migratory bird species.</p> <ul style="list-style-type: none"> <li>• In-season, raptor nesting clearance surveys will be performed by a certified biologist no more than one-week prior to construction.</li> <li>• In-season, migratory bird nesting (MBTA Compliance) will be cleared within 50-feet of the proposed disturbance 2-3 days prior to ground clearing activities.</li> <li>• Although Bald and Golden Eagle are included in the raptor nesting survey-suite, eagle habitat is not delineated within the Wells Ranch CDP.</li> </ul>  |
| 9  | Storm Water/Erosion Control            | <p>BMP's will be constructed around the perimeter of the site prior to, or at the beginning of construction. Specific BMP's used will include stockpile stabilization, grading, sediment traps, and perimeter barriers based on final construction design and will remain in place until the pad reaches final reclamation.</p>  |
| 10 | Material Handling and Spill Prevention | <p>Due to using a closed loop system, pits will not be used.</p>   |
| 11 | Material Handling and Spill Prevention | <p>Any material not in use that might constitute a fire hazard shall be removed a minimum of twenty-five (25) feet from the wellhead, tanks and separator. Any electrical equipment installations inside the bermed area shall comply with API RP 500 classifications and comply with the current national electrical code as adopted by the State of Colorado.</p> <ul style="list-style-type: none"> <li>• Flammable liquids shall not be stored within fifty (50) feet of the wellbore, except for the fuel in the tanks of operating equipment or supply for injection pumps. Where terrain and location configuration do not permit maintaining this distance, additional equivalent safety measures will be taken.</li> </ul>  |
| 12 | Material Handling and Spill Prevention | <p>Noble Energy Inc. designs well heads and supporting infrastructure on the well pad to avoid releases and to be compliant with all regulations specific to leak detection and control (i.e. SPCC 40CFR112). Daily, monthly and annual inspections are performed at each well pad to confirm operational integrity and regulatory compliance. Noble will perform maintenance if it is deemed necessary through any of the scheduled inspections. Automation technology is utilized to monitor any variations in pressures and fluid gauges which could indicate a leak at the well head or flow lines to the production facility. In addition, automation provides remote shut-in capabilities in the event of an emergency.</p>  |
| 13 | Material Handling and Spill Prevention | <p>Operator will implement a comprehensive Leak Detection Plan, utilizing the company-approved Leak Detection and Repair (LDAR) program. This plan will utilize a visual inspection program as well as utilizing an Infrared (IR) camera, aka Forward Looking Infrared (FLIR) camera, to inspect all connection points including loading lines. Using the Periodic Inspection and Monitoring (PIM) and LDAR programs, the goal of the program will be to, "contain, convey, and control" vapors and leaks emitting from a connection, tank system, separator, etc. While the LDAR program will cover all facilities, the PIM program will focus on Tank Systems. The inspection schedule will be based on potential tank emissions:</p> <ul style="list-style-type: none"> <li>• (Monthly) Greater than 50 tons</li> <li>• (Quarterly) Between 12 &amp; 50 tons</li> <li>• (Annually) Between 6&amp;12 tons</li> <li>• (One time) Less than 6 tons.</li> </ul> <p>Additionally, automated technology will be utilized to monitor pressure and fluid levels. When levels fluctuate greater or lesser than preset parameters, facilities will be capable of automatically shut-in facility and investigate anomaly(s).</p> |
| 14 | Material Handling and Spill Prevention | <p>No potential ignition sources shall be installed inside the secondary containment area unless the containment area encloses a fired vessel. Tertiary containment, such as an earthen berm, will be installed as required for production facilities within 500 feet of the SEASONAL STREAMBED WETLAND within the disturbance.</p>  |
| 15 | Material Handling and Spill Prevention | <p>Per natural gas produced from the well pad; Noble Energy intends to connect to a gas sales line at the first indication of salable quality gas. The sales line is in-place and during any emergency where the sales line is not operational, Noble would shut-in production.</p>  |

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| 16 | Dust control     | Speed limit of 20 MPH will be enforced. Dust Mitigation Plan will include mitigation of impacts from temporary operations by applying water or magnesium chloride as dust suppression within 2000' of occupied residences on Weld County Road 76 and on lease roads as necessary in cooperation with the County.  |
| 17 | Dust control     | Noble shall employ practices for control of fugitive dust caused by their operations. Such practices shall include but are not limited to the use of speed restrictions, regular road maintenance, restriction of construction activity during high wind days, and silica dust controls when handling sand used in hydraulic fracturing operations. Additional management practices such as road surfacing, wind breaks and barriers, or automation of wells to reduce truck traffic may also be used to minimize fugitive dust emissions. Engineered sound walls no less than 16' tall will be used along the west and east sides to mitigate dust impacts to these residences.  |
| 18 | Construction     | Unless otherwise requested by the Surface Owner, well sites constructed within the Designated Setback location will be fenced to restrict access by unauthorized persons.   |
| 19 | Construction     | At the time of construction, all leasehold roads shall be constructed to accommodate local emergency vehicle access requirements and shall be maintained in a reasonable condition. Operator plans on building the access road 20-30 feet wide off Weld County Road 76 for Drilling and Completion activities. Local government will not require coordination of a traffic plan with the local jurisdiction for this location.  |
| 20 | Construction     | Berms or other secondary containment devices shall be constructed around crude oil, condensate, and produced water storage tanks and shall enclose an area sufficient to contain and provide secondary containment for one-hundred fifty percent (150%) of the largest single tank. Standard secondary-containment construction includes the installation of a contiguous spray liner installed and underlaying the entire tank battery, then anchored into the steel-walled containment berms. Berms, liner or other secondary containment devices shall be sufficiently impervious to contain any spilled or released material. All berms and containment devices shall be inspected at regular intervals and maintained in good condition. No potential ignition sources shall be installed inside the secondary containment area unless the containment area encloses a fired vessel. Tertiary containment, such as an earthen berm, will be installed as required for production facilities within 500 feet of a down-gradient surface water feature. All berms will be visually checked periodically to ensure proper working conditions.                         |
| 21 | Construction     | All newly installed or replaced crude oil and condensate storage tanks shall be designed, constructed, and maintained in accordance with applicable regulations. Noble shall maintain written records verifying proper design, construction, and maintenance, and shall make these records available for inspection by the Director.  |
| 22 | Construction     | Grading and drainage of the pad will be designed with structural controls to ensure flow away from sensitive surface water resources to ensure surficial flow runs to the pad's perimeter diversion channel and then directly into the sediment-trap structure.   |
| 23 | Noise mitigation | Temporary operations – Baseline surveys will be completed at the residences to the North. Engineered sound walls no less than 32' tall will be used along the (appropriate sides for well pad) to mitigate noise impacts to these residences. Sound wall gaps will be strategically placed to adequately protect residences yet allow proper air-flow across the drill pad. The use of equipment specific sound walls will be used as necessary around rig generators in the event of sound impacts during operations. The rig will be oriented on the location so that the pieces of equipment that generate the highest noise levels will face away from the closest building unit owners. Additional noise mitigation technology will be used with the completion equipment. Water will be piped into location to reduce the noise associated with heavy-duty trucks. Operator will comply with the maximum permissible noise levels specified as NL-# in Rule 423.b.(1) by using 32' engineered noise abatement sound walls oriented along the North sides of the pad with an acoustic gate to close off the entrance of the pad to comply with COGCC requirements. |
| 24 | Noise mitigation | Per natural gas produced from the well pad; Noble Energy intends to connect to a gas sales line at the first indication of salable quality gas. The sales line is in-place and during any emergency where the sales line is not operational, Noble would shut-in production.  |

|    |                                |   |
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| 25 | Emissions mitigation           | <ul style="list-style-type: none"> <li>• Flow lines, separators, and sand traps capable of supporting green completions as described in Rule 903 shall be installed at any Oil and Gas Location at which commercial quantities of gas are reasonably expected to be produced based on existing adjacent wells within 1 mile.</li> <li>• Temporary flowback flaring and oxidizing equipment shall include the following: <ul style="list-style-type: none"> <li>o Adequately sized equipment to handle 1.5 times the largest flowback volume of gas experienced in a ten (10) mile radius.</li> <li>o Valves and porting available to divert gas to temporary equipment or to permanent flaring and oxidizing equipment; and</li> <li>o Auxiliary fuel with sufficient supply and heat to sustain combustion or oxidation of the gas mixture when the mixture includes non-combustible gases.</li> </ul> </li> <li>• Environmental Control Devices that are 98% efficient will be operational at the start of first production.</li> <li>• Instrument air systems to drive pneumatic controllers, in lieu of natural gas, will be installed.</li> <li>• Ultra-lean burning natural gas electrical generators or line power, in lieu of diesel generators, will be installed.</li> <li>• LACT units for oil and produced water to pump liquids into gathering pipelines will be utilized in lieu of trucking.</li> <li>• All surface pipe will be stringently tested to ensure system integrity.</li> <li>• Full site FLIR camera will be used at initial start-up and during regularly scheduled leak testing.</li> <li>• During ozone action season (May 1-September 30), on action alert days, Noble will reschedule non-essential operational activities such as pigging; well uploading, tank cleanings; minimizing vehicle mileage and idle time; fueling after sunset; and properly maintaining vehicles.</li> <li>• Operator shall employ sand traps, surge vessels, separators, and tanks during flowback and cleanout operations to safely maximize resource recovery and minimize releases to accommodate green completions techniques.</li> <li>• Operator will use an enclosed combustion device with a 98% design destruction efficiency for hydrocarbons.</li> </ul> |
| 26 | Emissions mitigation           | <p>Noble shall employ sand traps, surge vessels, separators, and tanks during flowback and cleanout operations to safely maximize resource recovery and minimize releases to accommodate green completions techniques.</p> <p>Noble will use an enclosed combustion device with a 98% design destruction efficiency for hydrocarbons.</p> <p>When commercial quantities of salable quality gas are achieved at each well, the gas shall be immediately directed to the sales line or wells will be shut in and gas conserved. If a sales line is unavailable or other conditions prevent placing the gas into a sales line, Noble shall not produce the wells without an approved variance per Rule 805.b.(3)C. The Rule 912 notice and approval requirements apply regardless of a variance from Rule 805.b.(3)C.</p>  |
| 27 | Odor mitigation                | <p>An alternative base fluid will be used for the oil-based mud in a designated setback location. This base fluid has lower BTEX levels, is considered Non-Flammable and Combustible by OSHA/WHMIS criteria and is classified as a non-regulated material by the US DOT. More importantly, this alternative base fluid has a higher flash point than normal diesel base fluid, which limits the odor causing vapor associated with OBM.</p>   |
| 28 | Drilling/Completion Operations | <p>All oil and water loadouts that are commonly used have a load bucket and isolation valve. Since they are used often, there is not a bull plug installed. Any loadouts (water on back of tanks for example) that are rarely used, are bull plugged without a load bucket.</p>   |
| 29 | Drilling/Completion Operations | <p>All guy line anchors left buried for future use shall be identified by a marker of bright color not less than four (4) feet in height and not greater than one (1) foot east of the guy line anchor.</p>   |



|    |                                |   |
|----|--------------------------------|---|
| 30 | Drilling/Completion Operations | All surficial activities performed by Operator during well drilling and completion activities will be protective of the environment. Bulk liquids used during D&C activities will be containerized in appropriate sealed vessels and underlain by an impervious liner and containment berm capable of containing any spill or leak from that vessel. Valves and temporary flow lines associated with D&C activities will be inspected daily for leaks while in service. Any spills identified on location will be immediately contained, recovered, disposed of, remediated and reported per COGCC Series 900 Rules (912. Spills and Releases). |
| 31 | Drilling/Completion Operations | All loadlines will be bullplugged or capped.  |

Total: 31 comment(s)

### **Attachment List**

| <b><u>Att Doc Num</u></b> | <b><u>Name</u></b>                   |
|---------------------------|--------------------------------------|
| 402931341                 | DIRECTIONAL WELL PLAT                |
| 402931343                 | ACCESS ROAD MAP                      |
| 402931345                 | CULTURAL FEATURES MAP                |
| 402931350                 | GEOLOGIC HAZARD MAP                  |
| 402931353                 | HYDROLOGY MAP                        |
| 402931354                 | LOCATION DRAWING                     |
| 402931355                 | LOCATION PICTURES                    |
| 402931356                 | WILDLIFE HABITAT DRAWING             |
| 402931357                 | RELATED LOCATION AND FLOWLINE MAP    |
| 402931360                 | ALA DATASHEET                        |
| 402931361                 | ALA NARRATIVE SUMMARY                |
| 402931365                 | LOCATION AND WORKING PAD GIS GDB     |
| 402931369                 | LAYOUT DRAWING                       |
| 402931370                 | NRCS MAP UNIT DESC                   |
| 402931376                 | SURFACE AGRMT/SURETY                 |
| 402931380                 | LOCAL/FED FINAL PERMIT DECISION      |
| 402931382                 | LESSER IMPACT AREA EXEMPTION REQUEST |
| 402931383                 | PRELIMINARY PROCESS FLOW DIAGRAMS    |
| 402931384                 | CPW CONSULTATION                     |

Total Attach: 19 Files

### **General Comments**

| <b><u>User Group</u></b> | <b><u>Comment</u></b> | <b><u>Comment Date</u></b> |
|--------------------------|-----------------------|----------------------------|
|                          |                       | Stamp Upon Approval        |

Total: 0 comment(s)



## **Public Comments**

No public comments were received on this application during the comment period.

