

FORM
2A

Rev
05/22

State of Colorado Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203
Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

402589248

(SUBMITTED)

Date Received:

05/16/2022

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.

Location ID:

OGDP ID:

Expiration Date:

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
220500101		

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

<No existing OGDP number provided>

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: 10456

Name: CAERUS PICEANCE LLC

Address: 1001 17TH STREET #1600

City: DENVER State: CO Zip: 80202

Contact Information

Name: Holly Hill

Phone: (303) 5212835

Fax: (303) 565-4606

email: regulatory@caerusoilandgas.com

FINANCIAL ASSURANCE FOR THIS LOCATION (check all that apply)

- Plugging, Abandonment, and Reclamation 20130021
- Centralized E&P Waste Management Facility _____
- Gas Gathering, Gas Processing, and Underground Gas Storage Facilities 20190098
- Surface Owner Protection Bond. _____

Federal Financial Assurance

- In checking this box, the Operator certifies that it has provided or will provide at least this amount of Financial Assurance to the federal government for one or more Wells on this Location.

Amount of Federal Financial Assurance \$ _____

LOCATION IDENTIFICATION

Name: ELU Number: A18-495 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.

Quarter: LOT 3 Section: 18 Township: 4S Range: 95W Meridian: 6 Ground Elevation: 8039

Latitude: 39.709112 Longitude: -108.105039

GPS Quality Value: 1.6 Type of GPS Quality Value: PDOP Date of Measurement: 05/18/2020

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 479215 402505441

RELEVANT LOCAL GOVERNMENT SITING INFORMATION

County: RIO BLANCO 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. No

Does the Relevant Local Government regulate the siting of Oil and Gas Locations, with respect to this location? No

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: _____

Status/disposition date: 01/26/2021

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: Edward Smercina Contact Phone: 970-878-9586

Contact Email: edward.smercina@rbc.us

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: Yes

Date submitted: 09/30/2020

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

Status/disposition Date: 12/09/2020

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: Tim Barrett Contact Phone: 970-878-3817

Contact Email: tbarrett@blm.gov Field Office: White River Field Office

Additional explanation of local and/or federal process:

This Oil and Gas Location and associated wells were approved by the White River Field Office Bureau of Land Management (BLM) on December 9, 2020. Furthermore, this Oil and Gas Location and associated wells are required to be drilled and completed in order for Caerus Piceance LLC (Caerus) to fulfill obligations stipulated in the Expanded Liberty Federal Unit Agreement, effective September 1, 2019, and amended on October 31, 2019. If Caerus is unable to drill and complete wells within this Federal Unit the boundaries of the Unit will contract. Additionally, the surface disturbance and cumulative impacts of this Oil and Gas Location and the associated wells was fully analyzed in the BLM's Environmental Assessment, Final Decision and Finding of No Significant Impact, dated November 25, 2020.

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)? Yes

Date of federal consultation: 06/02/2020

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? No

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 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 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).

Caerus respectfully requests that the Director waive the ALA requirement because CPW has provided a waiver attached herein per Rule 304.b.(2)B.viii. Caerus, CPW and BLM reviewed the surface location on June 2, 2020 and were in agreement with the proposed siting, mitigation efforts and the location's suitability to responsibly develop the minerals. COGCC reviewed the location in-field on June 10, 2020. This location has also been approved by the surface owner. The wells associated with this Form 2A do not require a spacing application. Additionally, the BLM approved this location and the associated wells via Applications for Permit to Drill on December 9, 2020. Lastly, the surface disturbance and cumulative impacts of this Oil and Gas Location and the associated wells were fully analyzed in the BLM's Environmental Assessment, Final Decision and Finding of No Significant Impact, dated November 25, 2020. Therefore, Caerus requests the Director waive the ALA requirement.

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:

< No row provided >

SURFACE & MINERAL OWNERSHIP

Surface Owner Info:

Name: The Oil Shale Corporation Phone: 281-206-5485
 Address: 925 North Eldridge Parkway Fax: _____
 Address: _____ Email: mark.w.salvie@conocophillips.com
 City: Houston State: TX Zip: 77079

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: COC62802 - Sec. 18, T4S-95W - Lots 3 and 4 and other land (1686 acres), COC70687 - Sec. 18, T4S-95W - Lots 5 and 6 and other land (320 Acres), COC57955 - Sec. 12, T4S-96W - All and other land (1278), and COC57684 - Sec. 13, T4S-96W - Lots 1 thru 4 and other land (1890).

SITE EQUIPMENT LIST

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

Wells	<u>35</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>4</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>2</u>	Fuel Tanks	<u>0</u>	LACT Unit	<u>0</u>
Dehydrator Units	<u>0</u>	Vapor Recovery Unit	<u>1</u>	VOC Combustor	<u>1</u>	Flare	<u>0</u>	Enclosed Combustion Devices	<u>0</u>
Meter/Sales Building	<u>6</u>	Pigging Station	<u>0</u>			Vapor Recovery Towers	<u>1</u>		

OTHER PERMANENT EQUIPMENT

Permanent Equipment Type	Number
Instrument Air/PDC Skid	1
Gas Lift Meter Skids	6
Chemical Skid	2
3-Phase Production Meter Skids	6
Chemical Pumps	2
Solar Arrays	6
Electrical Rack	1

OTHER TEMPORARY EQUIPMENT

Temporary Equipment Type	Number
Temporary flare during drilling	1
Produced Water Storage Tanks	20
Up to 12-inch poly surface line	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.

See facility diagram, Topo D and Interim Rec Figure 4B. Caerus is permitting 2 options for connection at the SW or NE corner of the pad. Pipelines will be buried in one trench after installation and will be co-located with access roads where possible: 1) 4690' or 5065' up to 12-inch 3-Phase gathering pipeline that will connect the ELU A18-495 well pad to the ELU G13-496 CDP transporting natural gas, produced water, condensate and some oil; 2) 4690' or 5065' to 8-inch remote frac pipeline that will transport recycled water from the ELU G13-496 CDP to the ELU A18-495 well pad for downhole operations; and 3) 4690' or 5065' long up to 6-inch gas lift pipeline connecting the ELU A18-495 to the ELU G13-496 CDP. Caerus will install an up to 12-inch 3-Phase flowback surface pipeline that will connect the ELU A18-495 Well Pad to the ELU G13-495 CDP for the purposes of transporting flowback during the completions phase. Once flowback operations have ended the surface pipeline will be removed.

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 (check all that apply):			Details of Condition(s)	604.b. (4)
			604.b. (1)	604.b. (2)	604.b. (3)		
Building:	4170 Feet	SW					
Residential Building Unit (RBU):	5280 Feet	S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
High Occupancy Building Unit (HOBU):	5280 Feet	S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Designated Outside Activity Area:	5280 Feet	S					
Public Road:	2760 Feet	SW					
Above Ground Utility:	5280 Feet	S					
Railroad:	5280 Feet	S					
Property Line:	4030 Feet	E					
School Facility:	5280 Feet	S					
Child Care Center:	5280 Feet	S					
Disproportionately Impacted (DI) Community:	5280 Feet	S					
RBU, HOBU, or School Facility within a DI Community.	5280 Feet	S	<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	<u>0</u>	<u>0</u>	<u>0</u>
Residential Building Units	<u>0</u>	<u>0</u>	<u>0</u>
High Occupancy Building Units	<u>0</u>	<u>0</u>	<u>0</u>
School Properties	<u>0</u>	<u>0</u>	<u>0</u>
School Facilities	<u>0</u>	<u>0</u>	<u>0</u>
Designated Outside Activity Areas	<u>0</u>	<u>0</u>	<u>0</u>

CONSTRUCTION

Size of disturbed area during construction in acres: 26.80

Size of location after interim reclamation in acres: 9.18

Estimated post-construction ground elevation: 8029

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? No

DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE

Drilling Fluids Disposal Method: Recycle/reuse

Cutting Disposal: ONSITE

Cuttings Disposal Method: Cuttings trench

Other Disposal Description:

Drill cuttings will be put through shakers to minimize moisture and analyzed for Table 915-1 constituents. Cuttings that meet 915-1 levels will be backfilled into the cuttings management area along the northwestern portion of the pad (see Waste M. Plan).

Beneficial reuse or land application plan submitted?

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 Reserve Program (CRP)

Non-Crop Land: Rangeland Forestry Recreation Other

Subdivided: Industrial Commercial Residential

Describe the current land use:

The current and primary uses of the land are natural gas development, rangeland, and wildlife habitat.

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

The current and historic use of description at this site are designated as rangeland. Caerus has contacted Rio Blanco County and they have no siting regulations and has waived its right to precede the COGCC or BLM in siting determination. For further questions please contact Edward Smercina at 970-878-9586.

Describe any applicable Federal land use designation:

This Oil and Gas Location is subject to, and in conformance with the following Federal Land Use Plans: 1997 White River Record of Decision and Approved Resource Management Plan (ROD/RMP) as amended by the White River Field Office Oil and Gas Development Approved Resource Management Plan Amendment (RMPA) and the Northwest Colorado Greater Sage-Grouse Approved RMPA (2015).

FINAL LAND USE

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

Crop Land: Irrigated Non-Irrigated Conservation Reserve 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):

Current surface is designated as rangeland. Caerus does not anticipate the final land use to change.

Reference Area Latitude: 39.711765

Reference Area Longitude: -108.106109

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

Plant Community	Dominant vegetation
Native Grassland	Sagebrush
Shrub Land	Montane shrubland

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: 87- Starman - Vandamore complex, 5 to 40 percent slopes

NRCS Map Unit Name: 58 - Parachute loam, 25 to 75 percent slopes

NRCS Map Unit Name: 43 - Starman-Vandamore complex, 5 to 40 percent slopes

GROUNDWATER AND WATER WELL INFORMATION

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

water well: 4330 Feet SW

Spring or Seep: 5280 Feet W

Estimated depth to shallowest groundwater that can be encountered at this Oil and Gas Location: 75 Feet

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

The closest drainage to the location is 381-feet to the West as depicted on Topo 'W'. The drainages depicted on this plat are dry throughout the year.
The closest water well is 4330-feet from the Working Pad Surface
Depth to groundwater was estimated to be deeper than 75 feet below ground surface (bgs) based on the constructed monitoring well water well located 5910 feet west; Permit #56839-MH, Hunter Ridge Energy Services; completed in alluvial coarse sands and gravels; first water encountered at 70 feet bgs; TD - 77' bgs; screened from 60' to 75' bgs; SWL of 74' bgs

SURFACE WATER AND WETLANDS

Provide the distance and direction to the nearest downgradient surface Waters of the State, as defined 1300 Feet SW

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: 1160 Feet SW

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

The nearest downgradient waters of the state is an unnamed stream listed as Riverine Habitat according to NWI and is dry most of the year. The nearest NWI mapped wetland is Palustrine Emergent, but this area is very dry and it is unlikely that this wetland is actually present.

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? No

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 06/02/2020 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):

High Priority Habitat (list all that apply)	Oil and Gas Location	Access Road	Utility or Pipeline Corridor
1202.d.(5) - Greater sage-grouse priority	x	x	x
1202.d.(2) - Elk migration & winter	x	x	x
1202.d.(3) - Mule deer migration & winter	x	x	x

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? Yes

Is a Compensatory Mitigation Plan proposed to address direct impacts for this Oil and Gas Location? Yes

Have all Compensatory Mitigation Plans been approved for this Location? Yes

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

For further information regarding Caerus' proposed Compensatory Mitigation efforts which are detailed in the Wildlife Management Plan.

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

Direct impact habitat mitigation fee amount: \$ 0

Indirect Impacts:

Is Compensatory Mitigation required per Rule 1203.d for this Oil and Gas Location? Yes

Is a Compensatory Mitigation Plan proposed to address indirect impacts for this Oil and Gas Location? Yes

Have all Compensatory Mitigation Plans been approved for this Location? Yes

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

In lieu of submitting a Compensatory Mitigation Fee, Caerus would prefer to commit to initiatives elaborated further in the Wildlife Management Plan and Compensatory Mitigation Plan, which will provide direct offset benefits to the immediate environment. Credits have been assessed for such commitments in the plan.

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

Indirect impact habitat mitigation fee amount: \$ 0

Operator Proposed Wildlife BMPs

No	Target Species	BMP Type	Description
1	GREATER SAGE-GROUSE	Wildlife - Avoidance	Avoidance and minimization were both used in the planning of each location. Caerus has agreed to avoid Barnes Ridge where there are several active GrSG leks. This location is located ~3-miles to the East of Barnes Ridge with a distance greater than 1-mile and natural terrain features (valleys and ridges) separating the locations from the active lek sites.
2	GREATER SAGE-GROUSE	Wildlife - Minimization	The operator agrees to reclaim/restore greater sage-grouse habitats with native shrubs, grasses, and forbs identified by CPW that contribute to optimal greater sage-grouse habitat and other wildlife appropriate to the ecological site. In order to offset any direct impacts planned disturbance may cause, Caerus has already removed brush on Caerus owned surface near the location to provide sage-grouse habitats with native shrubs, grasses and forbs as a condition for BLM EA and the Compensatory Mitigation Plan.
3	GREATER SAGE-GROUSE	Wildlife - Minimization	If oil and gas construction must occur within greater sage-grouse primary general habitat management areas (PHMA and GHMA), the operator agrees to conduct oil and gas construction outside the period between March 1st and July 15th. Caerus will complete pad construction and interim/final reclamation activities between July 15th and December 15th; avoiding the greater sage grouse wintering, breeding, and nesting periods that occur during this timeframe.
4	GREATER SAGE-GROUSE	Wildlife - Minimization	Only essential traffic will be permitted to access sites throughout the North Parachute Ranch where no active operations are occurring. As a general Caerus practice, essential visits to the well pad and production pad will occur between 10 AM and 4 PM during the leking, nesting and early brood rearing season (March 1st - June 30th) within 1.0-mile of an active lek.

5	MULE DEER & ELK	Wildlife - Minimization	Caerus will continue to provide access to CPW research personnel for ongoing mule deer research and predator research on the North Parachute Ranch, and other Caerus owned property.
6	MULE DEER & ELK	Wildlife - Minimization	Caerus will consult with CPW and BLM prior to any construction of new surface structures within five primary migratory corridors detailed in the attached Wildlife Management Plan. Caerus will place multiple gathering lines into a single trench to minimize disturbance and construction. Caerus will install trench plugs (sloped to allow wildlife or livestock to exit the trench should they enter) at known wildlife or livestock trails to allow safe crossing on long spans of open trench, when trenches are open longer than 48-hours.
7	GREATER SAGE-GROUSE	Wildlife - Minimization	To reduce truck traffic, Caerus will utilize a three-phase gathering system to transfer product fluids from this oil and gas location to the ELU G13-496 Central Delivery Point where produced water will then be transferred through the existing pipeline system to the Divide Road Water Treatment Facility located to the southwest of this location for treatment and recycling of produced water. Additionally, Caerus will utilize solar panels to reduce the need for additional powerlines and use remote telemetry to reduce the need for daily well site visitation.
8	GREATER SAGE-GROUSE	Wildlife - Minimization	Use interim reclamation to redevelop, as quickly as possible, ground cover that provides for secure ground movements of GrSG and is an effective precursor to the re-establishment of appropriate sagebrush cover. Caerus will also reseed disturbances exceeding 15-feet in width mapped in the occupied GrSG habitat with local sagebrush seed, where topography and weather conditions allow safe access to do so.
9	MULE DEER & ELK	Wildlife - Minimization	Only essential traffic will be permitted to access sites through the North Parachute Ranch where no active operations are occurring.
10	MULE DEER & ELK	Wildlife - Minimization	Caerus will implement three-phase gathering at the ELU G13-496 CDP to reduce the need for onsite separation and fluid storage production facilities and reduce the need for increased acreage put into reclamation. Furthermore, centralized facilities significantly reduces the need for truck traffic that would have been necessary to transport produced water off-location for re-use or disposal.
11	MULE DEER & ELK	Wildlife - Minimization	Through Caerus' ranch manager, Caerus will manage all grazing lease agreements for the North Parachute Ranch under a consistent monitoring program to ensure that livestock utilization does not negatively impact other natural wildlife resources. Monitoring will include fence inspections, repairs, and improvements; periodic range checks for trespassing cattle or unexpected issues; the use of grazing baskets to determine the percentage of grazing usage so that livestock may be timely removed from an area; continuing the development and maintenance of water sources as a result of Caerus operations; and adopting grazing management guidelines, including grazing lease deferrals, to protect existing wildlife habitat resources. Existing and new lease agreements include provisions to: 1) limit animal grazing unit months; 2) prevent overgrazing; 3) manage the use of salt blocks to protect vegetation; 4) conduct any weed treatment operations consistent with the North Parachute Ranch Integrated Vegetation Management Guidance Document; and 5) utilize sound management practices
12	MULE DEER & ELK	Wildlife - Minimization	Pets will be prohibited on Caerus property.
13	MULE DEER & ELK	Wildlife - Minimization	If new oil and gas construction must occur within CPW-mapped elk production areas, the operator agrees to conduct new oil and gas construction outside the time period from May 15th through June 30th.
14	MULE DEER & ELK	Wildlife - Minimization	MITIGATION: Caerus conducts annual weed control treatment in areas not associated with oil and gas operations. A team will typically traverse 1000-acres to spray herbicide on weeds to eliminate patches and seed source.
15	BLACK BEAR	Wildlife - Avoidance	The operator agrees to report bear conflicts immediately to CPW staff.

16	BLACK BEAR	Wildlife - Avoidance	The operator will store all garbage, trash, and debris in enclosed bear proof trash containers and transported to an approved disposal facility once per week during drilling and completions operations. No garbage, trash, and debris will be disposed of on location. The well site and access road will be kept free of trash and debris at all time.
17	BLACK BEAR	Wildlife - Avoidance	Caerus will conduct regular contractor and employee training with respect to black bear awareness, which will be reinforced during ongoing trainings at worksite tailgate meetings, monthly safety meetings, and EHS hazard identification programs.
18	GREATER SAGE-GROUSE	Wildlife - Minimization	Where feasible raptor perch deterrents will be installed on cross arms or power poles and other documented raptor perches, such as radio towers, where birds are noted perching. Caerus will monitor all structures exceeding 6-feet in high occupied in GrSG habitat for the presence of perching raptors or ravens. However, note perch deterrents will not be installed if they pose a safety issue (such as on hand rails or tank batteries).
19	MULE DEER & ELK	Wildlife - Minimization	Remote well control and monitoring (SCADA) will be employed to reduce traffic.

AIR QUALITY MONITORING PROGRAM

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

Operator Proposed BMPs

No	BMP Target	CDPHE Recommendation	COGCC Action
	Air		
	Description	Engines: Operator will use tier III or higher for fleets accessing the site (service vehicles, sand delivery, haul, produced water, etc.). Operator will use dual fuel for the drilling rig.	
	CDPHE Comment		
	Air		
	Description	Operator will utilize a modern flowback system that will utilize separators on location with flow meter capability. Fluids will be separated and measured, then re-combined to be sent via pipeline to an off pad production facility where the fluid will be separated and accounted for.	
	CDPHE Comment		
	PFAS		
	Description	Caerus has confirmed with Grand Valley Fire Department that PFAS foam will not be used on the location, however if for any reason the fire leaves the location, the Grand Valley Fire Department will utilize foams and mechanisms as they see fit to remedy any fire hazards.	
	CDPHE Comment		
1	Air		
	Description	Tankless production: Operator will not store hydrocarbon liquids on site	
	CDPHE Comment		
5	Air		
	Description	Operator will implement ambient air quality monitoring on site	
	CDPHE Comment		
6	Air		
	Description	Operator will properly maintain vehicles and equipment	
	CDPHE Comment		
7	Air		

	Description	Operator will use non-emitting pneumatic controllers
	CDPHE Comment	
8	Air	
	Description	Pipelines: Operator will use pipelines to transport water for hydraulic fracturing to and from location
	CDPHE Comment	
9	Air	
	Description	Pipelines: Operator will have adequate and committed pipeline take away capacity for all produced gas and oil
	CDPHE Comment	
10	Air	
	Description	Pipelines: Operator will use pipelines to transport water for hydraulic fracturing to and from location
	CDPHE Comment	
11	Waste	
	Description	Operator will properly characterize and dispose of all waste (i.e. the specific landfill/waste disposal location allows for acceptance of the waste stream)
	CDPHE Comment	
12	Waste	
	Description	Operator will properly test for and dispose of TENORM
	CDPHE Comment	
13	Water	
	Description	CPGCC permit will incorporate other agency water quality protection plans by reference as applicable (e.g. stormwater management plan)
	CDPHE Comment	
14	Water	
	Description	Stormwater inspections: Operator will conduct stormwater inspections immediately after storm event
	CDPHE Comment	
16	Air	
	Description	Venting/Flaring: Operator will control bradenhead/casinghead venting
	CDPHE Comment	
17	Air	
	Description	Venting/Flaring: Operator will not flare or vent gas during completion or flowback, except in upset or emergency conditions, or with prior written approval from the Director for necessary maintenance operations
	CDPHE Comment	
18	Water	
	Description	Documentation / stormwater management plan: If it is infeasible to install or repair a control measure immediately after discovering a deficiency, operator will document and keep on record in the stormwater management plan: (a) a description of why it is infeasible to initiate the installation or repair immediately; and (b) a schedule for installing or repairing the control measure and returning it to an effective operating condition as soon as possible.
	CDPHE Comment	
19	Water	
	Description	Operator will recycle or beneficially reuse flowback and produced water for use downhole
	CDPHE Comment	

20	Water	
	Description	Dust suppression: Operator will not use produced water or other process fluids for dust suppression
	CDPHE Comment	

PLANS

Total Plans 13
 Uploaded:

- (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: 406.E.(4)

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 checked="" 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 checked="" type="checkbox"/> 304.c.(12). Gas Capture Plan |
| <input type="checkbox"/> 304.b.(13). Proximate Local Government | <input checked="" 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 checked="" 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 checked="" type="checkbox"/> 304.c.(20). Community Outreach Plan |
| | <input type="checkbox"/> 304.c.(21). Geologic Hazard Plan |

OPERATOR COMMENTS AND SUBMITTAL

Comments

This is a new pad proposed to develop 35 federal mineral wells. Note that all 35 federal APDs were approved 12/9/2020, and one APD is attached for reference as that approved APD reflects the same COAs attached to all 35 APDs. Topo 'D' attached represents the planned permitting for this well pad which includes two planned routes for the proposed pipelines based on where the pipelines may connect to facilities which will be determined at the facility construction phase. All planned pipelines, whether that be Option A or Option B depicted in Topo 'D' will be routed to the ELU G13-496 CDP which will serve as a frac support location and the processing point for all hydrocarbons and water for the ELU A18-495. The ELU G13-496, and related infrastructure was permitted under a separate Form 2A (COGCC Location ID: 479215). All produced water generated from the ELU A18-495 wells will be transported via a surface line to the ELU G13-496 CDP, at which point produced water will be transported via existing pipelines to the Caerus operated Divide Road Water Treatment Facility in the SE of Section 26 T4S R96W where it will be recycled. Oil, natural gas, and some condensate will be transported via pipeline to the ELU G13-496 CDP where 3-phase separation will occur, after which point natural gas will flow through a custody transfer meter and then flow to either the Story Gulch Compressor Station, which is 4.5 miles Southwest in the SWSE of Section 34, T4S R96W or Middle Fork Compressor Station which is 8.8 miles South in the SWSW Section 30, T5S R95W where compression and dehydration services will be conducted. Gas will then move through existing pipelines to the Turkey Track sales point in the NW of Section 25 T4S R96W.

The following 304.c Plans are not required for this location:

- Emergency Spill Response Program - Location is not within 2640' of groundwater under the direct influence of a surface water well or Type III well or surface water that is 15-miles or less upstream from a PWS intake.
- Odor Mitigation Plan - Location is not within 2000' of a BU or DOAA
- Transportation Plan - Location is in Rio Blanco County and does not require such plan
- Hydrogen Sulfide Drilling Plan - Caerus does not expect to encounter H2S during drilling
- Gas Capture Plan - Caerus will connect production through a midstream gas gathering system prior to commencement of production operations
- Flood Shut-In Plan - The proposed location is not located in a statewide floodplain
- Community Outreach Plan - Location is not within 2000' of a RBU or HOB, or school located within a DUC

Caerus will comply with Rule 609 Statewide Groundwater Baseline Sampling and Monitoring.
 Caerus will comply with Rule 603.f. statewide equipment, weeds, waste, and trash requirements.
 Caerus is in the process of working with Grand Valley Fire Department to ensure that PFAS foam is not used on this location in the very unlikely event of a fire.
 Caerus is seeking a variance to Rule 406.e.(4) to allow for conductors to remain on rangeland surface longer than 6 months due to CPW and Federal wildlife timing stipulations.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.
 Signed: _____ Date: 05/16/2022 Email: regulatory@caerusoilandgas.com

Print Name: Holly Hill 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.

<u>COA Type</u>	<u>Description</u>

Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>
1	Wildlife	Caerus will utilize the ELU G13-496 CDP as a remote frac location. Furthermore, directional drilling is planned to minimize habitat loss and fragmentation. Caerus will be implementing the BMPs detailed and discussed further in the attached Wildlife Management Plan starting on page 3, which will provide multiple natural resource benefits and promote adaptive management of the landscape. The majority of the BMPs Caerus will commit to are voluntary, however please note that the Wildlife Management Plan derived from pre-consultation meetings with CPW. Lastly, Caerus will utilize the Wildlife Resources Matrix (within the approved North Parachute Ranch, Wildlife Mitigation Plan) attached as Exhibit B to the Wildlife Management Plan to identify and document potential impacts or concerns during the project planning phase for proposed drilling/completion operations and construction of roads, pads, and pipelines.

2	Storm Water/Erosion Control	Caerus' Stormwater Management Plan is attached and addresses site specific Best Management Practices (BMPs) Caerus will commit to during the pre-production and production phases of the well pad's life. BMPs will be implemented during, on and around the disturbances associated with the well pad, soil stockpiles, access road(s), and pipeline rights-of-way. With the proposed location being on top of a ridge line, there is little to no Run-On for this disturbance. BMP sizing was based on the regional 25-year 24-hour storm event. BMP topics include spill prevention and response, material delivery and storage, waste management and disposal, vehicle use and tracking controls, BMPs for potential pollution sources, inspection and maintenance schedules, and well pad control measures. For more detailed information please review the Stormwater Management Plan attached.
3	Material Handling and Spill Prevention	Please refer to the Fluid Leak Detection Plan attached, which covers BMPs and operational practices for the well pad during all phases of pre and post production. Please also review the Waste Management Plan for material handling. To minimize any leaks during drilling a closed loop system will be utilized and personnel are onsite during drilling and completions 24/7 to inspect and monitor all equipment. During the completions phase equipment is monitored and tracked onsite utilizing Electric Diagnose Controls which have built-in shutdown parameters to catch and prevent failures. Once the wells are turned on, they enter a flowback stage of which personnel is on location 24/7 to monitor and inspect equipment and operations. Wells are eventually connected to a Supervisory Control and Data Acquisition (SCADA) automated monitoring technology that allows real-time monitoring remotely. From there, well pads, with multiple wells are visited no less frequently than weekly and are inspected for any leaks.
4	Dust control	Active measures to prevent fugitive dust emissions from the well pad, well pad access entrance, and other connecting dirt roads during drilling, completion, and production operations will be implemented. Fugitive dust control measures to reduce dust and coating of vegetation and deposition in water sources include the use of water/fluid dust suppression application, the use of speed restrictions, and regular road maintenance. Please refer to the attached Dust Mitigation Plan for site specific control measures Caerus will adhere to.
5	Construction	The pad will be constructed as designed and shown on the Construction Layout Drawings. During construction only the minimum amount of vegetation necessary for the construction of roads and facilities will be removed. Topsoil will be set aside and preserved during excavation. Topsoil be re-used as cover on disturbed areas and perimeter berms. No construction or routine maintenance activities are performed during periods when the soil is too wet to adequately support construction equipment. Any stockpile(s) for topsoil and excess cut material will be located in work areas surrounded by the BMPs as shown on the Construction Layout Drawings. Stormwater BMPs will be installed per details in the Stormwater Management Plan (SWMP) and as shown on the Disturbed areas of the site will be left in a surface roughened condition. BMPs will be protected, inspected, and repaired as necessary. All new flowline/pipeline installations will be performed in accordance with new flowline guidance and requirements in the COGCC 1100 Series Rules. All new offsite pipelines will be registered in accordance with the 1100 Series Rules. Berms or other containment devices shall be constructed to be sufficiently impervious (corrugated steel with synthetic liner) to adequately contain any spilled or released material around crude oil, condensate, and produced water storage tanks, while also ensuring the adequate prevention of significant adverse environmental impacts.
6	Emissions mitigation	Caerus will implement enhanced green completions best management practices by routing all natural gas, liquids and produced water to a centralized facility where production will be stored and processed. Caerus will not vent or flare production. Beyond this, Caerus will comply with all applicable air regulations implemented by the Air Quality Control Commission.

7	Drilling/Completion Operations	<p>Closed loop system will be utilized.</p> <p>DRILL CUTTINGS: Solids control equipment consisting of shale shakers, centrifuges, and flocculating units will be utilized to separate drill cutting solids from liquid(water). Drill cuttings may be segregated between surface casing cuttings, and production zone cuttings and stockpiled on location. Cuttings sample swill be collected every 1000 cubic yards and will be submitted for laboratory analysis of COGCC Table 915-1 analytes. Drill cuttings will be managed pursuant to COGCC rule 905.e.until sampling and analytical data demonstrates them compliant with COGCC Table 915-1. Water based drill cuttings that exceed Table 915-1 for constituents listed under soil suitability for Reclamation will be managed per COGCC Rule 905.g.(2).and pursuant to Rule 915.b. If cuttings meet Table 915-1 standards, they will be managed under beneficial reuse on location. They could also be used under beneficial reuse, at another location, if approved by COGCC through a Sundry Form 4. Any excess cuttings may potentially be transported to an authorized waste facility. The moisture content of any cuttings shall be as low as practicable to prevent accumulation of liquids greater than de minimis amounts cuttings may be mixed with waste cement to act as a drying agent. In the event that a certain volume of drill cuttings analytically demonstrates constituents above Table 915-1 standards, the cuttings will be remediated per COGCC rule 905.e(2).. Pursuant to Rule 304.c.(11) cuttings management details can be found in the Waste Management Plan attached.</p> <p>FLOWBACK & STIMULATION/CONTAINMENT: Caerus will be completing the wells from a remote location, the ELU G13-496 CDP, which will serve as the support pad and central delivery point, therefore no permanent tanks will be situated on the ELU A18-495 well pad. As wells progress from the drilling stage to the completions stage temporary working tanks will be situated on the ELU A18-495 Well Pad. Completion operations will be conducted from the off-site ELU G13-496 CDP via a buried frac line that will have a riser near the wells to be completed.</p> <p>On the ELU A18-495 location, wireline trucks, data van and an estimated 15-20 500-bbl tanks will be on location for roughly 18-months as the wells progress from the drilling to completions stage during Sim-Ops. The contents of the tanks will contain produced water. The temporary tanks will be placed on a certain portion of the ELU A18-495 Well Pad and laid upon an impervious synthetic or engineered liner which would be underlaid by road base. The liners will be sufficient to hold up to 150% of the largest tank on the location. Note, the entire Oil and Gas Location for the ELU A18-495 will include a compacted earthen berm perimeter around the operational area for ELU A18-495 Well Pad. Once the working tanks are no longer necessary for operations both the tanks and the impervious liner will be removed.</p>	
8	Interim Reclamation	<p>Caerus' Stormwater management plan is addressed through the Stormwater Management Plan (CDPHE Certification #COR400000 for North Parachute). Run-on protection and run-off controls will be installed prior to the beginning of construction activities, with consideration given to worker safety, wildlife, and site access. Run-off and sediment control will be addressed when the soil is mostly dry and when seasonal and weather conditions are most favorable. Typically, road and location blading will occur after the winter and spring seasons. For more detailed information please review the Interim Reclamation Plan attached.</p>	
9	Final Reclamation	<p>The disturbed areas surrounding the well location, including the access road will be recontoured to blend as nearly possible with the natural topography. Final grading of backfilled and cut slopes will be done to prevent erosion and encourage establishment of vegetation. Previously existing drainages will be re-established.</p> <p>The long-term objective is to establish a self-perpetuating plant community that is compatible with and capable of supporting the identified land use. Noxious weeds will be treated in accordance with applicable COGCC rules and county weed management requirements. For more detailed information please review the Final Reclamation Plan attached.</p>	

Total: 9 comment(s)

Attachment List

<u>Att Doc Num</u>	<u>Name</u>
402937655	FEDERAL ENVIRONMENTAL ANALYSIS
402952180	OTHER
402952215	FED. DRILLING PERMIT
403028104	CULTURAL FEATURES MAP
403028123	RELATED LOCATION AND FLOWLINE MAP
403036245	LESSER IMPACT AREA EXEMPTION REQUEST
403036252	CPW WAIVER
403036253	CPW WAIVER
403036261	CPW CONSULTATION
403036262	WAIVERS
403036328	WAIVERS
403036329	VARIANCE REQUEST
403046941	PRE-APPLICATION NOTIFICATION CERTIFICATION
403050257	MINERAL LEASE MAP
403050262	LOCATION DRAWING
403050273	REFERENCE AREA MAP
403066291	GEOLOGIC HAZARD MAP
403066600	NRCS MAP UNIT DESC
403066608	DIRECTIONAL WELL PLAT
403066613	REFERENCE AREA PICTURES
403066626	LOCATION PICTURES
403066631	WILDLIFE HABITAT DRAWING
403066743	ACCESS ROAD MAP
403067306	LAYOUT DRAWING
403067619	SURFACE AGRMT/SURETY
403068388	PRELIMINARY PROCESS FLOW DIAGRAMS
403068444	RELATED LOCATION AND FLOWLINE MAP
403068896	HYDROLOGY MAP
403069086	LOCATION AND WORKING PAD GIS SHP
403078835	FACILITY LAYOUT DRAWING
403079072	OTHER
403080881	MULTI-WELL PLAN
403080889	OTHER

Total Attach: 33 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)

Public Comments

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

