

**FORM
2A**Rev
08/19**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:

401959515

Date Received:

06/06/2019

Oil and Gas Location Assessment☒ New Location ☐ Refile ☐ Amend Existing Location Location#: _____

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 <http://cogcc.state.co.us/> for all accompanying information pertinent this Oil and Gas Location Assessment.

Location ID:

467272

Expiration Date:

09/06/2022☒ This location assessment is included as part of a permit application.**CONSULTATION**

- ☐ This location is included in a Comprehensive Drilling Plan. CDP # _____
- ☒ This location is in a sensitive wildlife habitat area.
- ☐ This location is in a wildlife restricted surface occupancy area.
- ☐ This location includes a Rule 306.d.(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: Reed Haddock

Phone: (720) 880-6369

Fax: (303) 565-4606

email: rhaddock@caerusoilandgas.com

FINANCIAL ASSURANCE

- ☒ Plugging and Abandonment Bond Surety ID (Rule 706): 20130021 ☐ Gas Facility Surety ID (Rule 711): _____
- ☐ Waste Management Surety ID (Rule 704): _____

LOCATION IDENTIFICATION

Name: ELU Number: J14-496

County: RIO BLANCO

QuarterQuarter: NESW Section: 14 Township: 4S Range: 96W Meridian: 6 Ground Elevation: 7901

Define a single point as a location reference for the facility location. When the location is to be used as a well site then the point shall be a well location.

Footage at surface: 2051 feet FSL from North or South section line

2235 feet FWL from East or West section line

Latitude: 39.700947 Longitude: -108.137218

PDOP Reading: 1.4 Date of Measurement: 12/20/2018

Instrument Operator's Name: Dennis Petty

LOCAL GOVERNMENT INFORMATION

County: RIO BLANCO Municipality: N/A

Per § 34-60-106 (1)(f)(I)(A), the following questions pertain to the "local government with jurisdiction to approve the siting of the proposed oil and gas location."

The local government with jurisdiction is: County

Does the local government with jurisdiction regulate the siting of Oil and Gas Locations, with respect to this COGCC application? If the local government has waived its right to precede the COGCC in siting determination, indicate by selecting "NO" here and selecting "Waived" below. ☐ Yes ☒ No

If yes, in checking this box, I hereby certify that an application has been filed with the local government with jurisdiction to approve the siting of the proposed oil and gas location. ☐

The local government siting permit type is: _____

The local government siting permit was filed on: _____

The disposition of the application filed with the local government is: Waived

Additional explanation of local process:

Caerus Piceance LLC contacted Rio Blanco County and they have no siting regulations. Rio Blanco County has waived its right to precede the COGCC in siting determination. Contact Lanney Massey, Rio Blanco LGD and NRS at 970-878-9586 for questions.

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:	<u>LOCATION ID #</u>	<u>FORM 2A DOC #</u>
Well Site is served by Production Facilities	<u>432790</u>	<u> </u>
	<u>415949</u>	<u> </u>

FACILITIES

Indicate the number of each type of oil and gas facility planned on location

Wells <u>29</u>	Oil Tanks* <u> </u>	Condensate Tanks* <u> </u>	Water Tanks* <u>1</u>	Buried Produced Water Vaults* <u> </u>
Drilling Pits <u> </u>	Production Pits* <u> </u>	Special Purpose Pits <u> </u>	Multi-Well Pits* <u> </u>	Modular Large Volume Tanks <u> </u>
Pump Jacks <u> </u>	Separators* <u> </u>	Injection Pumps* <u> </u>	Cavity Pumps* <u> </u>	Gas Compressors* <u> </u>
Gas or Diesel Motors* <u> </u>	Electric Motors <u> </u>	Electric Generators* <u> </u>	Fuel Tanks* <u> </u>	LACT Unit* <u> </u>
Dehydrator Units* <u> </u>	Vapor Recovery Unit* <u> </u>	VOC Combustor* <u>1</u>	Flare* <u> </u>	Pigging Station* <u> </u>

OTHER FACILITIES*

<u>Other Facility Type</u>	<u>Number</u>
3-Phase Production Meter Skids	<u>5</u>
Blowdown Water Tank	<u>1</u>
Gas Lift Meter Skids	<u>7</u>
Chemical Pumps	<u>7</u>

Those facilities indicated by an asterisk () shall be used to determine the distance from the Production Facility to the nearest cultural feature on the Cultural Setbacks Tab.

Per Rule 303.b.(3)C, description of all oil, gas, and/or water pipelines:

Subsurface flow lines for new wells from wellhead to the production meter skids will be 3" steel.
A new 12" steel 3-phase flowline will be utilized from the skids connecting to the 12" line from the A24-496 Pad which will connect to the 12" line located on the Wolf Ranch Compressor site.
2" steel lines will be run from the gas lift meter skids to the wellheads.

CONSTRUCTION

Date planned to commence construction: 09/06/2019 Size of disturbed area during construction in acres: 9.08
Estimated date that interim reclamation will begin: 10/19/2020 Size of location after interim reclamation in acres: 2.01
Estimated post-construction ground elevation: 7902

DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: Yes

Is H₂S anticipated? No

Will salt sections be encountered during drilling: No

Will salt based mud (>15,000 ppm Cl) 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: Other

Other Disposal Description:

The cuttings will be put through shakers to minimize moisture and analyzed for Table 910-1 constituents. Cuttings that meet 910-1 levels will be backfilled into the cuttings management area along the southeastern cut portion of the pad (see WMP).

Beneficial reuse or land application plan submitted?

Reuse Facility ID: or Document Number:

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

SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: Caerus Piceance LLC

Phone:

Address: 1001 17th Street, Suite 1600

Fax:

Address:

Email:

City: Denver State: CO Zip: 80111

Surface Owner: ☒ Fee ☐ State ☐ Federal ☐ Indian

Check all that apply. The Surface Owner: ☐ is the mineral owner

☐ is committed to an oil and Gas Lease

☐ has signed the Oil and Gas Lease

☒ is the applicant

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

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

The right to construct this Oil and Gas Location is granted by: applicant is owner

Surface damage assurance if no agreement is in place: Surface Surety ID:

Date of Rule 306 surface owner consultation

If this Form 2A is associated with Drilling and Spacing Unit applications, list docket number(s):

CURRENT AND FUTURE LAND USE

Current Land Use (Check all that apply):

Crop Land: ☐ Irrigated ☐ Dry land ☐ Improved Pasture ☐ Hay Meadow ☐ CRP

Non-Crop Land: ☒ Rangeland ☐ Timber ☐ Recreational ☐ Other (describe):

Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

Future Land Use (Check all that apply):

Crop Land: ☐ Irrigated ☐ Dry land ☐ Improved Pasture ☐ Hay Meadow ☐ CRP

Non-Crop Land: ☒ Rangeland ☐ Timber ☐ Recreational ☐ Other (describe): _____

Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

CULTURAL DISTANCE INFORMATION

Provide the distance to the nearest cultural feature as measured from Wells or Production Facilities onsite.

	From WELL	From PRODUCTION FACILITY
Building:	5280 Feet	5280 Feet
Building Unit:	5280 Feet	5280 Feet
High Occupancy Building Unit:	5280 Feet	5280 Feet
Designated Outside Activity Area:	5280 Feet	5280 Feet
Public Road:	5280 Feet	5280 Feet
Above Ground Utility:	5280 Feet	5280 Feet
Railroad:	5280 Feet	5280 Feet
Property Line:	666 Feet	566 Feet
School Facility::	5280 Feet	5280 Feet
School Property Line:	5280 Feet	5280 Feet
Child Care Center:	5280 Feet	5280 Feet

INSTRUCTIONS:

- All measurements shall be provided from center of nearest Well or edge of nearest Production Facility to nearest of each cultural feature as described in Rule 303.b.(3)A.
- Enter 5280 for distance greater than 1 mile.
- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.
- Building Unit, High Occupancy Building Unit, Designated Outside Activity Area, School Facility, and Child Care Center – as defined in 100 Series Rules.
- For measurement purposes only, Production Facilities should only include those items with an asterisk(*) on the Facilities Tab.

SCHOOL SETBACK INFORMATION

Was Notice required under Rule 305.a.(4)? ☐ Yes ☒ No

DESIGNATED SETBACK LOCATION INFORMATION

Check all that apply. This location is within a:

- ☐ Buffer Zone
☐ Exception Zone
☐ Urban Mitigation Area

- Buffer Zone - as described in Rule 604.a.(2), within 1,000' of a Building Unit.
- Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit.
- Urban Mitigation Area - as defined in 100-Series Rules.
- Large UMA Facility – as defined in 100-Series Rules.

Pre-application Notifications (required if location is within 1,000 feet of a building unit):

Date of Rule 305.a.(1) Urban Mitigation Area Notification to Local Government: _____

Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: _____

FOR MULTI-WELL PADS AND PRODUCTION FACILITIES WITHIN DESIGNATED SETBACK LOCATIONS ONLY:

- ☐ Check this box if this Oil and Gas Location has or will have Production Facilities that serve multiple wells (on or offsite) and the Production Facilities are proposed to be located less than 1,000 feet from a Building Unit. *(Pursuant to Rule 604.c.(2)E.i., the operator must evaluate alternative locations for the Production Facilities that are farther from the Building Unit, and determine whether those alternative locations were technically feasible and economically practicable for the same proposed development.)*
- ☐ By checking this box, I certify that no alternative placements for the Production Facilities, farther from the nearest Building Unit, were available based on the analysis conducted pursuant to Rule 604.c.(2)E.i.

In the space below, explain rationale for siting the multi-well Production Facility(ies) that supports your Rule 604.c.(2)E.i determination. Attach documentation that supports your determination to this Form 2A.

SOIL

List all soil map units that occur within the proposed location. attach the National Resource Conservation Service (NRCS) report showing the "Map Unit Description" report listing the soil typical vertical profile. This data is to be used when segregating topsoil.

The required information can be obtained from the NRCS web site at <http://soildatamart.nrcs.usda.org/> or from the COGCC web site GIS Online map page found at <http://colorado.gov/cogcc>. Instructions are provided within the COGCC web site help section.

NRCS Map Unit Name: 87—Starman-Vandamore complex, 5 to 40 percent slopes.

NRCS Map Unit Name: 96—Veatch channery loam, 12 to 50 percent slopes.

NRCS Map Unit Name: _____

PLANT COMMUNITY:

Complete this section only if any portion of the disturbed area of the location's current land use is on non-crop land.

Are noxious weeds present: Yes ☐ No ☒

Plant species from: ☒ NRCS or, ☐ field observation Date of observation: _____ .

List individual species:

Check all plant communities that exist in the disturbed area.

- ☐ Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye)
- ☒ Native Grassland (Bluestem, Grama, Wheatgrass, Buffalograss, Fescue, Oatgrass, Brome)
- ☒ Shrub Land (Mahogany, Oak, Sage, Serviceberry, Chokecherry)
- ☐ Plains Riparian (Cottonwood, Willow, Aspen, Maple, Poplar, Russian Olive, Tamarisk)
- ☐ Mountain Riparian (Cottonwood, Willow, Blue Spruce)
- ☐ Forest Land (Spruce, Fir, Ponderosa Pine, Lodgepole Pine, Juniper, Pinyon, Aspen)
- ☐ Wetlands Aquatic (Bullrush, Sedge, Cattail, Arrowhead)
- ☐ Alpine (above timberline)
- ☐ Other (describe): _____

WATER RESOURCES

Is this a sensitive area: ☒ No ☐ Yes

Distance to nearest

downgradient surface water feature: 1358 Feet

water well: 10505 Feet

Estimated depth to ground water at Oil and Gas Location 75 Feet

Basis for depth to groundwater and sensitive area determination:

Depth to groundwater was estimated to be approximately 75' below ground surface (bgs) based on construction information for a constructed monitoring well (Uinta Formation completed in consolidated gravels and sandstones) located approximately 390 feet to the north-northeast; Permit #MH-56839 – Hunter Ridge Energy Services LLC; total depth - 76' bgs, screened interval - 60' to 75 bgs'; static water level - 74 bgs'. The closest constructed water well (domestic and stock) is located approximately 10505 feet to west-northwest; Permit #017013-F – The Oil Shale Corporation; first water bearing zone encountered at 360 bgs'; surface casing from 0' to 122 bgs'; open hole from 122' to 721' bgs; pump set at 125' bgs; sustainable pumping rate of 420 gallons per minute (gpm); well is considered an artesian well (SWL estimated from pump test to be 2' above ground surface).

Is the location in a riparian area: ☒ No ☐ Yes

Was an Army Corps of Engineers Section 404 permit filed ☒ No ☐ Yes If yes attach permit.

Is the location within a Rule 317B Surface Water Supply Area buffer No
zone:

If the location is within a Rule 317B Surface Water Supply Area buffer have all public water supply systems within 15 miles been notified: _____

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

☒ Federal (FEMA)

☒ State

☒ County

☐ Local

☐ Other _____

GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 609

WILDLIFE

☐ This location is included in a Wildlife Mitigation Plan

☒ This location was subject to a pre-consultation meeting with CPW held on 06/11/2019

DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

☐ Rule 604.a.(1)A. Exception Zone (within 500' of a Building Unit) and is in an Urban Mitigation Area

☐ Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of Rule 604.a.)

☐ Rule 604.b.(1)B. Exception Location (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit construction after Location approval)

☐ Rule 604.b.(2) Exception Location (SUA or site-specific development plan executed on or before August 1, 2013)

☐ Rule 604.b.(3) Exception Location (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific development plan)

RULE 502.b VARIANCE REQUEST

☐ Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number _____

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

OPERATOR COMMENTS AND SUBMITTAL

Comments This is a new pad. Caerus Piceance LLC plans to drill 29 wells.

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.

ELU J14-496 Pad - 3-PHASE GATHERING OPERATIONS

All three phases of product will be sent via new and existing offsite pipelines to the Story Gulch Unit (SGU) J25 Central Delivery Point (CDP) (Location ID #415949). Gas, condensate, and produced water will be separated at the SGU J25 CDP, with condensate being trucked off the CDP location, and produced water being pumped to the Divide Road Water Treatment Facility (Location ID #432790, E&P Facility ID #432214). Gas will be gathered by Caerus to either the Middle Fork Compressor Station or Story Gulch Compressor Station and transferred/discharged to a third party gas gathering sales line.

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

Signed: _____ Date: 06/06/2019 Email: rhaddock@caerusoilandgas.com

Print Name: Reed Haddock Title: Sr. Regulatory Specialist

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: 9/7/2019

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

	Operator shall submit within 30 days of approval of this Form 2A a Form 10 - Change of Operator for Location ID 415949.
Planning	<p>Planning: The following conditions of approval (COAs) will apply:</p> <ul style="list-style-type: none">• Provide Notices as described in the most current version of the Northwest Notification Policy.• Since condensate/oil and produced water storage tanks are not planned to be constructed on this well pad location, operator shall submit a scaled as-built drawing (plan view with distances) of this well pad from which the condensate/oil, produced water, and gas will be sent from via underground pipelines (showing wellheads, onsite flowlines, offsite pipelines, pumping jacks, and any other ancilliary equipment). The product receiving location will also require a scaled as-built drawing (plan view with distances), showing offsite and onsite pipelines, truck load out (if constructed), and production facilities (separators, combustor, storage tanks, etc.) within 60 calendar days of construction of the production equipment on location.

Best Management Practices

No BMP/COA Type

Description

1	Planning	<ul style="list-style-type: none">• Use or modify existing roads where possible.• Maximize the use of directional drilling to minimize habitat loss/fragmentation.• Maximize use of remote telemetry for well monitoring to minimize traffic.
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2	Wildlife	<ul style="list-style-type: none"> September 2017 - Caerus Piceance LLC (Caerus) agreed to the Amended and Restated Wildlife Mitigation Plan (WMP) for Encana's proposed oil and gas operations on the North Parachute Ranch (NPR) property. Caerus received authorization from Colorado Parks and Wildlife (CPW) to transfer the EnCana Wildlife Mitigation Plan Agreement (WMPA) to Caerus' existing WMPA. Caerus is currently adhering to all aspects of both WMPAs through Caerus' current best management practices.
3	Wildlife	<p>Standard Best Management Practices (BMPs) for Locations in 'Restricted Surface Occupancy (RSO)' and 'Sensitive Wildlife Habitat (SWH)' Areas within North Parachute Ranch (NPR) Wildlife Mitigation Plan Agreement (WMPA) and Adjacent Site-Wide Development Areas.</p> <p>June 2019 - Caerus and CPW reviewed and updated the practices listed below as best management practices (BMPs) for permits issued by the Colorado Oil and Gas Conservation Commission (COGCC) for Caerus operations in the geographic area referenced in the North Parachute Ranch (NPR) WMPA. The following BMPs shall apply to all permits.</p> <ul style="list-style-type: none"> Use solar panels as an alternative energy source for on-location production equipment. Use multiple gathering lines placed in a single trench to minimize disturbance and construction. 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 renches are left open longer than 48 hours. Install pipeline crossings at right angles to the drainages, wetlands, and perennial water bodies, at locations where sufficient available working area and existing topography will allow for the use of such construction design measures. Limit in-stream construction activity to 24-hours for water bodies less than ten feet wide and to 48-hours for water bodies greater than ten feet wide at locations where horizontal boring is not feasible. Maintain a minimum of five feet of soil cover between the pipeline and the lowest point of the drainage or water body channel. Perform biological surveys (on-site) for each new development, using the most recent data sets for wildlife and aquatic resources. Perform pre-disturbance surveys when the on-site inspection and commencement of disturbance occur in different field seasons using the most recent data sets for wildlife and aquatic resources. Utilize the Caerus Wildlife Resources Matrix to identify and document potential impacts or concerns during the project planning phase for proposed drilling operations and construction of roads, pads and pipelines. Prohibit Caerus employees and contractors from carrying projectile weapons on Caerus property, except during company organized events. Prohibit pets on Caerus property. Strategically apply fugitive dust control measures, including enforcing established speed limits on Caerus private roads, to reduce fugitive dust and coating of vegetation and deposition in water sources. Use engineering controls at all water draw points from Parachute Creek (i.e., overhead loading, one-way valves, install stationary draw hoses with screened intakes) to prevent contamination of the Parachute Creek drainage. Use enclosed, locking garbage receptacles or implement a strict daily trash removal regime on each temporary or permanent work location.
4	Storm Water/Erosion Control	<ul style="list-style-type: none"> Stormwater is addressed under a field-wide Stormwater Management Plan (CDPHE Certification #COR037689). 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.

5	Construction	<ul style="list-style-type: none"> • The pad will be built 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 conserved during excavation and will be reused 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 Construction Layout Drawings. Disturbed areas of site will be left in a surface roughened condition. • BMPs will be protected, inspected, and repaired as necessary. • 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. • All new flowline installations will be performed in accordance with new flowline guidance provided by the COGCC concerning the 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	Drilling/Completion Operations	<ul style="list-style-type: none"> • Closed loop system will be used. No pits will be built. An enclosed flare stack will be used. • Caerus will ensure 110 percent secondary containment for any potential volume of fluids that may be released. • Caerus utilizes a portable containment liner under the substructure of the drilling rig during drilling activities. This protects shallow groundwater from any potential spills surrounding the rig during drilling. A liquid release would simply be vacuumed up from the liner. When drilling activity is completed, the liner is removed and transferred to the next drilling location. • The moisture content of all drill cuttings managed onsite shall be kept as low as practicable to prevent accumulation of liquids greater than de minimis amounts. • All cuttings generated during drilling will be placed in a bermed portion of the well pad prior to beneficial reuse or disposition; the surface where the cuttings will be placed will be constructed to be sufficiently impervious (or temporarily lined) to keep any material from migrating into the subsurface. • Flowback and stimulation fluids will be sent to enclosed tanks, separators, or other containment or filtering equipment before the fluids are placed into the offsite (take away) pipeline; no open top tanks can be used for initial flowback fluids containment; and secondary containment for flowback storage tanks will meet the requirements of Rule 906.d.(1). 	
7	Interim Reclamation	<ul style="list-style-type: none"> • Once all topsoil has been distributed across the site where interim reclamation is planned, the location is then seeded by drill seeding methods or broadcast seeding. • Re-vegetation is accomplished as soon as practical following the preparation of a site for final stabilization. Seeding will be done when seasonal or weather conditions are most favorable. • On terrain where drill seeding is appropriate, seed may be planted using a drill equipped with a depth regulator to ensure proper depth of planting. • Re-countouring to help control run-on and run-off will be done in areas where it will not impede ongoing production operations. 	

8	Final Reclamation	<ul style="list-style-type: none"> • Re-contouring - The disturbed areas surrounding the well location, including the access road will be re-contoured to blend as nearly possible with the natural topography. • Final grading of back-filled and cut slopes will be done to prevent erosion and encourage establishment of vegetation. Existing drainages will be re-established. • Previously existing drainages will be re-established. • Re-vegetation - 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.
9	CPW-Wildlife - Minimization-GREATER SAGE-GROUSE	The operator has agreed to utilize a third party to monitor noise during completions activities to satisfy the BLM condition of approval regarding sound impacts.
10	CPW-Wildlife - Minimization-Deer and Elk	Prior to construction of new surface structures within CPW-identified big game migration corridors, Caerus will consult with CPW consistent with the Wildlife Resources Matrix in the NPR Wildlife Mitigation Plan.
11	CPW-Wildlife - Minimization-GREATER SAGE-GROUSE	The operator agrees to apply a 0.6 mile no-disturbance buffer around active greater sage-grouse leks from 5:00 am to 9:00 am, March 15 through May 15 annually, for vehicle traffic and other disturbances (access roads). Where practicable, traffic will be restricted during this date range after sunset when grouse are congregating around the lek until 9:00 am the following morning when birds depart the lek.
12	CPW-Wildlife - Minimization-Deer and Elk	During drilling and completions, the operator will limit all activity to the pad surface and existing access road during the production and wintering periods for big game.
13	CPW-Wildlife - Minimization-Deer and Elk	Throughout the WMP boundary and adjacent site-wide development areas, only essential traffic will be permitted to access sites where no active operations are occurring.
14	CPW-Wildlife - Avoidance-GREATER SAGE-GROUSE	The operator agrees to avoid constructing this oil and gas location within 1 mile of any active greater sage-grouse lek site.
15	CPW-Wildlife - Minimization-GREATER SAGE-GROUSE	The operator agrees to use topographical features as recommended by CPW to provide visual concealment of facilities from lek locations and as a noise suppressant.
16	CPW-Wildlife - Minimization-Deer and Elk	Interim reclamation will be completed between the dates of July 15 and December 15 to avoid the production and wintering periods for big game. 3. Prior to construction of new surface structures within CPW-identified big game migration corridors, Caerus will consult with CPW consistent with the Wildlife Resources Matrix in the NPR Wildlife Mitigation Plan. 4. Throughout the WMP boundary and adjacent site-wide development areas, only essential traffic will be permitted to access sites where no active operations are occurring. 5. The operator will continue to provide access to CPW research personnel for ongoing wildlife research projects.
17	CPW-Wildlife - Minimization-GREATER SAGE-GROUSE	The operator agrees to construct this location between the dates of July 15 and December 15 to avoid the greater sage-grouse nesting period and wintering periods for grouse and big-game.
18	CPW-Wildlife - Minimization-Deer and Elk	The operator will continue to provide access to CPW research personnel for ongoing wildlife research projects.
19	CPW-Wildlife - Minimization-GREATER SAGE-GROUSE	The operator agrees to conduct interim reclamation between July 15 and December 15 to avoid the nesting and wintering periods for grouse.

Total: 19 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
2108933	NRCS MAP UNIT DESC
2108934	OFFSITE PIPELINE MAP
2108935	BLM SURFACE USE PLAN OF OPERATIONS (SUPO)
2108936	OBJECTIVE CRITERIA REVIEW MEMO
401959515	FORM 2A SUBMITTED
401971014	HYDROLOGY MAP
401971018	LOCATION DRAWING
401971021	LOCATION PICTURES
401971023	REFERENCE AREA MAP
401971024	REFERENCE AREA PICTURES
401971026	ACCESS ROAD MAP
401971047	MULTI-WELL PLAN
401971048	PROPOSED BMPS
401976022	WASTE MANAGEMENT PLAN
402067202	ACCESS ROAD MAP
402067210	CONST. LAYOUT DRAWINGS
402067216	FACILITY LAYOUT DRAWING

Total Attach: 17 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
OGLA	The 'Objective Criteria Review Memo' document (#2108936) is attached to this Form 2A. Following additional analysis of the Director Objective Criteria, the Director determined that this application meets the standard for the protection of public health, safety, welfare, the environment and wildlife resources set by SB 19-181.	08/27/2019
Permit	Permitting Final review complete ready for final review after directors review	08/23/2019
OGLA	08/22/2019 - completed OGLA Form 2A review by Dave Kubeczko; attached requested BLM Surface Use Plan of Operations (SUPO) to the Form 2A; passed OGLA and OGLA-181 Form 2A review tasks by Dave Kubeczko; operator's drawings and proposed BMPs are sufficient; added Northwest Notification Policy and as-built for well pad and offsite production facility COAs on the Form 2A; no additional COAs required; prepared and finalized the 'Objective Criteria Review Memo' for the additional analysis of wildlife protection concerns.	08/22/2019
OGLA	08/21/2019 - initiated Form 2A OGLA review by Dave Kubeczko; requested the BLM Surface Use Plan of Operations (SUPO) from operator; requested updated greater sage grouse active LEK location information from CPW; placed Northwest Notification Policy and as-built for well pad and offsite production facility COAs on the Form 2A.	08/21/2019
OGLA	08/13/2019 - COGCC staff conducted its technical review of this Form 2A Oil and Gas Location Assessment within the context of SB 19-181 and the required Objective Criteria. This Form 2A met Objective Criteria #6 and #12.	08/13/2019

DOW	<p>This permit application is for a new pad location on fee surface with federal minerals. The location was incorrectly marked as being within a wildlife mitigation plan (just outside of the boundary). However, the operator is abiding by all of the best management practices and agreements contained within the North Parachute Ranch Plan, negotiated between the operator and CPW to protect wildlife from disturbance and conserve habitats. The relevant species-specific BMPs have been entered by CPW under the wildlife tab of the Form2A. The field-wide operational BMPs from the WMP have been provided to COGCC OGLA staff for incorporation on the final Form 2A permit. Email concurrence of these BMPs has also been provided to COGCC on June 28, 2019.</p> <p>This location contains federal wildlife timing stipulations for construction, drilling, and completions associated with the federal oil and gas lease. The operator has scheduled construction of the pad outside the grouse breeding season, and wintering season for grouse and big game. Due to the number of wells being drilled on this location, it is not feasible for the operator to drill and complete them all outside of the sensitive wildlife seasons. Therefore, BLM and CPW have agreed that it is beneficial to provide a one-time exemption to the timing stipulations to allow the site to be completed during a single occupancy of the pad. This will minimize the number of mobilizations that would occur otherwise. Additionally, this multi-well pad greatly reduces surface disturbance and habitat fragmentation that would result from the multiple well pads required to develop the same area.</p> <p>The operator has utilized a CPW approved private consultant to survey for signs of greater sage-grouse use at this location and it was deemed a low use area for grouse. CPW biologists have confirmed these findings based on field observations and GPS collar locations. Additionally, the nearest lekking areas are not within a direct line of site due to topographic relief, and many of the leks shown as Restricted Surface Occupancy (RSO) areas are no longer active leks. The operator is also utilizing a remote frac operation, which will result in a greater distance between the completions equipment and the nearest active lek locations.</p> <p>Colorado Parks and Wildlife is satisfied that the operator's plan of operations and best management practices from the North Parachute Ranch WMP will adequately avoid and minimize impacts to wildlife at this given location.</p> <p>Comments Submitted By: Taylor Elm, June 28th, 2019, 13:50</p>	06/28/2019
Permit	Passed completeness.	06/17/2019

Total: 7 comment(s)