

FORM
2A

Rev
02/20

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:

402341264

(SUBMITTED)

Date Received:

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

Location ID:

Expiration Date:

☒ 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: O13-496 Pad
County: RIO BLANCO
Quarter: W1/2SE Section: 13 Township: 4S Range: 96W Meridian: 6 Ground Elevation: 8120

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: 1293 feet FSL from North or South section line
2095 feet FEL from East or West section line

Latitude: 39.698697 Longitude: -108.115109

GPS Quality Value: 1.4 Type of GPS Quality Value: PDOP Date of Measurement: 06/06/2020

Instrument Operator's Name: B. Taggart

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 location? If the local government does regulate the siting, but has waived its right to precede the COGCC in siting determination, indicate by selecting "YES" here and selecting "Waived" for the disposition 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: LOCATION ID # FORM 2A DOC #

☐

FACILITIES

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

Wells	26	Oil Tanks*	_____	Condensate Tanks*	_____	Water Tanks*	_____	Buried Produced Water Vaults*	_____
Drilling Pits	_____	Production Pits*	_____	Special Purpose Pits	_____	Multi-Well Pits*	_____	Modular Large Volume Tanks	_____
Pump Jacks	_____	Separators*	_____	Injection Pumps*	_____	Cavity Pumps*	_____	Gas Compressors*	_____
Gas or Diesel Motors*	_____	Electric Motors	_____	Electric Generators*	_____	Fuel Tanks*	_____	LACT Unit*	_____
Dehydrator Units*	_____	Vapor Recovery Unit*	_____	VOC Combustor*	_____	Flare*	1	Pigging Station*	_____

OTHER FACILITIES*

Other Facility Type	Number
3-Phase Production Meter Skids	5
Chemical Pumps	2
Gas Lift Meter Skids	5
Solar Arrays	4

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:

Buried up to 12" for 3-phase gathering that connects to the ELU 013 496 and the ELU G13 496 CDP that will deliver 3-phase flow to the CDP.
Buried up to 8" frac line connecting the ELU 013 496 to the ELU G13 496 CDP, doubling as a remote frac location.
Surface up to 12" for 3-phase flowback that will be conducted on the ELU G13 496 CDP Pad.
Buried up to 6" gas lift line.

CONSTRUCTION

Date planned to commence construction: 08/30/2021 Size of disturbed area during construction in acres: 0.00
Estimated date that interim reclamation will begin: 11/01/2022 Size of location after interim reclamation in acres: 2.79
Estimated post-construction ground elevation: 8118

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: Beneficial reuse

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 north 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: The Oil Shale Corporation

Phone: 281-206-5485

Address: 925 North Eldridge Parkway

Fax:

Address:

Email:

City: Houston State: TX Zip: 77079

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: Surface Use Agreement

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): Existing Pad

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): Existing Pad

Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

SUBMITTED

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:	365 Feet	384 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:	302 Feet	170 Feet
Above Ground Utility:	5280 Feet	5280 Feet
Railroad:	5280 Feet	5280 Feet
Property Line:	1270 Feet	1300 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: 43—Irigul-Parachute complex, 5 to 30 percent slopes

NRCS Map Unit Name: _____

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: 06/02/2020

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: 1000 Feet

water well: 350 Feet

Estimated depth to ground water at Oil and Gas Location 30 Feet

Basis for depth to groundwater and sensitive area determination:

A monitoring well is located 350' from pad and permitted by Conoco Phillips Company with reported depth of 40'; Permit No. 47452-MH - Constructed.

A permitted water well 2400' +/- southwest of pad was permitted by Encana Oil and Gas USA; Receipt No. 3667700B.

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 06/02/2020

Operator Proposed Wildlife BMPs

No	Target Species	BMP Type	Description
1	GREATER SAGE-GROUSE	Wildlife - Avoidance	Caerus has agreed to avoid development along the top of Barnes Ridge. CPW Indicated that this ridge is an important resource for the greater sage grouse population and will continue to adhere to avoiding the ridgetop.
2	GREATER SAGE-GROUSE	Wildlife - Mitigation	Caerus will continue to provide access to CPW research personnel for ongoing greater sage grouse population research on the North Parachute Ranch (NPR)(NPR) and other operator-owned property.
3	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. Essential site visits to the well pad and production pad will occur between 10:00 a.m. and 4:00 p.m. during the lekking, nesting and early brood rearing seasons (March 1 to June 30) within 1.0 mile of an active lek

4	GREATER SAGE-GROUSE	Wildlife - Minimization	Caerus will implement three-phase gathering on existing locations to reduce the need for onsite production facilities and increase the acreage put into interim reclamation
5	GREATER SAGE-GROUSE	Wildlife - Minimization	Caerus will restrict commercial and residential development on the North Parachute Ranch
6	GREATER SAGE-GROUSE	Wildlife - Minimization	Caerus will implement weed management programs for offsite weed treatment (annual budget of \$100,000) and onsite weed treatment (annual budget of \$200,000) for well pads, support pads, production and central delivery point pads, pipeline corridors, access roads, and adjacent areas
7	GREATER SAGE-GROUSE	Wildlife - Avoidance	Caerus plans to avoid new disturbance by reoccupying the existing TLQ storage yard. Caerus will avoid new disturbance by reoccupying existing access road and pipeline right-of-ways
8	GREATER SAGE-GROUSE	Wildlife - Avoidance	Caerus will complete pad construction and interim/final reclamation activities between July 15 and December 15; avoiding the greater sage grouse wintering, breeding, and nesting periods of December 15 to July 15.
9	Deer and Elk	Wildlife - Mitigation	Caerus will consult with CPW and BLM prior to any construction of new surface structures within CPW-identified big game migration corridors. Caerus will place multiple gathering lines into a single trench to minimize disturbance and construction; and 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 left open longer than 48 hours.
10	Deer and Elk	Wildlife - Mitigation	Caerus will continue to provide access to CPW research personnel for ongoing mule deer research and predator research on the North Parachute Ranch (NPR) and other operator-owned property.
11	Deer and Elk	Wildlife - Minimization	Only essential traffic will be permitted to access sites throughout the North Parachute Ranch where no active operations are occurring.
12	Deer and Elk	Wildlife - Minimization	Caerus will implement a three-phase gathering system on this existing location to reduce the need for onsite separation and fluid storage facilities and increase the amount of acreage placed into interim reclamation.
13	Deer and Elk	Wildlife - Mitigation	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 animal management practices
14	Deer and Elk	Wildlife - Mitigation	Caerus elected to add additional Grazing Monitoring cages to several of the pastures and near water sources. A total of \$50,000 will be spent on grazing monitoring annually.
15	Deer and Elk	Wildlife - Minimization	Pets will be prohibited on Caerus property
16	Deer and Elk	Wildlife - Avoidance	Caerus will complete pad construction and interim/final reclamation activities between July 15 and December 15; avoiding the greater sage grouse wintering, breeding, and nesting periods of December 15 to July 15.

17	Deer and Elk	Wildlife - Mitigation	Caerus will implement weed management programs for offsite weed treatment (annual budget of \$100,000) and onsite weed treatment (annual budget of \$200,000) for well pads, support pads, production and central delivery point pads, pipeline corridors, and access roads.
18	Deer and Elk	Wildlife - Mitigation	Caerus will maintain open space (no permanent surface structures) on 20 acres of the Parachute Creek Property.
19	GREATER SAGE-GROUSE	Wildlife - Minimization	Caerus will utilize the BLM/CPW suggested seed mix containing native species recommended for greater sage grouse habitat
20	GREATER SAGE-GROUSE	Wildlife - Minimization	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
21	GREATER SAGE-GROUSE	Wildlife - Minimization	To reduce truck traffic, Caerus will utilize a three-phase gathering system to transfer product fluids from the NPM O13-496 well pad to the CDP; where produced water will then be transferred through the existing pipeline system to the Divide Road Water Treatment Facility for treatment and recycling
22	Black Bear	Wildlife - Avoidance	The operator agrees to report bear conflicts immediately to CPW staff.
23	Black Bear	Wildlife - Minimization	The operator will implement Rule 1204.a.1 (also see General Operating Recommendations). by storing 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

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 an existing pad with no Facility ID. No new construction is planned. Caerus Piceance LLC plans to drill 26 wells. Attached find the SUPO. For completions, one new location will be utilized as ancillary facilities for the ELU O13-496 pad, consisting of the ELU G13-496 CDP-Frac Support Pad. The ELU G13-496 CDP will be permitted under a separate Form 2A.

ELU O13-496 Pad - 3-PHASE GATHERING OPERATIONS.

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.

Stormwater is addressed under a field-wide 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.

September 2019 - 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. The NPR Wildlife Mitigation Plan is amended yearly.

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

Signed: _____ Date: _____ 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: _____

Conditions Of Approval

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

COA Type

Description

Best Management Practices

No BMP/COA Type

Description

1	Planning	Caerus is using and modifying existing pads and access roads; directional drilling is planned to minimize habitat loss and fragmentation. Onsite biological surveys for each new development, using the most recent data sets for wildlife resources, will be conducted prior to any activity. Caerus uses the Wildlife Resources Matrix (within the approved North Parachute Ranch, Wildlife Mitigation 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	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.

3	Construction	<p>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 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.</p> <p>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.</p> <p>Stormwater BMPs will be installed per details in the Stormwater Management Plan (SWMP) and as shown on the Construction Layout Drawings. Disturbed areas of the site will be left in a surface roughened condition. BMPs will be protected, inspected, and repaired as necessary.</p> <p>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.</p> <p>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.</p>	
4	Drilling/Completion Operations	<p>Closed loop system will be used. No pits will be built. An enclosed flare stack will be used.</p> <p>Caerus will ensure 110 percent secondary containment for any volume of fluids stored at the location during drilling and completions.</p> <p>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.</p> <p>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.</p> <p>All cuttings generated during drilling will be placed in a bermed portion of the well pad prior to onsite beneficial reuse or onsite disposal; 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.</p> <p>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).</p>	
5	Interim Reclamation	<p>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.</p> <p>Re-contouring to help control run-on and run-off will be done in areas where it will not impede ongoing production operations.</p>	
6	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.</p>	

Total: 6 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
402341281	NRCS MAP UNIT DESC
402434980	CONST. LAYOUT DRAWINGS
402434984	HYDROLOGY MAP
402434985	OTHER
402434989	TOPO MAP
402434990	ACCESS ROAD MAP
402435281	LOCATION DRAWING
402435282	LOCATION PICTURES
402435283	MULTI-WELL PLAN
402435284	OTHER
402435294	REFERENCE AREA PICTURES
402435295	REFERENCE AREA MAP
402435299	WASTE MANAGEMENT PLAN
402435368	OTHER
402443171	OTHER
402492359	SURFACE AGRMT/SURETY
402492361	FACILITY LAYOUT DRAWING
402492362	OTHER
402492367	SURFACE PLAN

Total Attach: 19 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.

