

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

Document Number:

401552974

Date Received:

03/14/2018

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:

456832

Expiration Date:

08/23/2021☒ 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: 10311

Name: SRC ENERGY INC

Address: 1675 BROADWAY SUITE 2600

City: DENVER State: CO Zip: 80202

Contact Information

Name: Erin Ekblad

Phone: (720) 616.4319

Fax: (720) 616.4301

email: eekblad@srcenergy.com

RECLAMATION FINANCIAL ASSURANCE

☒ Plugging and Abandonment Bond Surety ID: 20090043☐ Gas Facility Surety ID: _____☐ Waste Management Surety ID: _____

LOCATION IDENTIFICATION

Name: Bost Farm

Number: 5-7 Pad

County: WELD

QuarterQuarter: NWNW Section: 7 Township: 5N Range: 66W Meridian: 6 Ground Elevation: 4881

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: 1297 feet FNL from North or South section line

942 feet FWL from East or West section line

Latitude: 40.417976 Longitude: -104.829009

PDOP Reading: 1.3 Date of Measurement: 06/15/2017

Instrument Operator's Name: Michael Hernandez

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	<u>48</u>	Oil Tanks*	<u>16</u>	Condensate Tanks*	<u> </u>	Water Tanks*	<u>4</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>2</u>
Pump Jacks	<u> </u>	Separators*	<u>48</u>	Injection Pumps*	<u> </u>	Cavity Pumps*	<u> </u>	Gas Compressors*	<u>6</u>
Gas or Diesel Motors*	<u> </u>	Electric Motors	<u> </u>	Electric Generators*	<u>3</u>	Fuel Tanks*	<u> </u>	LACT Unit*	<u>8</u>
Dehydrator Units*	<u> </u>	Vapor Recovery Unit*	<u>8</u>	VOC Combustor*	<u>8</u>	Flare*	<u> </u>	Pigging Station*	<u> </u>

OTHER FACILITIES*

Other Facility Type

Number

NGL Skid	<u>2</u>
Instrument Air Building	<u>4</u>
Gas Lift Skid	<u>4</u>
NGL Electrical Generator	<u>2</u>
NGL Valve Trailer	<u>2</u>
Two Phase Separator	<u>16</u>
Gas Buster	<u>5</u>
NGL Tanks	<u>6</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:

1 inch, 2 inch, 3 inch, schedule 40/80/160 bare and fusion bonded epoxy, threaded and welded. water, oil, gas.
4, 6, 8 inch schedule 40/80 bare and fusion bonded epoxy, welded, water, oil, gas.
2, 3, and 4 inch stainless steel, schedule 40, water
6 inch, 8 inch, 10 inch schedule 40 welded, oil and combustion vapors.
Flowlines 3, 4, 6, 8" fusion bonded epoxy and welded scheduled 10/40/80/160 steel.

CONSTRUCTION

Date planned to commence construction: 09/15/2018 Size of disturbed area during construction in acres: 31.51
Estimated date that interim reclamation will begin: 06/30/2021 Size of location after interim reclamation in acres: 10.34
Estimated post-construction ground elevation: 4881

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? Yes

DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE

Drilling Fluids Disposal Method: Commercial Disposal

Cutting Disposal: OFFSITE

Cuttings Disposal Method: Commercial Disposal

Other Disposal Description:

Beneficial reuse or land application plan submitted? No

Reuse Facility ID: _____ or Document Number: _____

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

SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: SRC Energy, Inc.

Phone: _____

Address: 1675 Broadway

Fax: _____

Address: Suite 2600

Email: _____

City: Denver State: CO Zip: 80202

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 07/19/2017

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:	910 Feet	762 Feet
Building Unit:	972 Feet	762 Feet
High Occupancy Building Unit:	5280 Feet	5280 Feet
Designated Outside Activity Area:	5280 Feet	5280 Feet
Public Road:	922 Feet	597 Feet
Above Ground Utility:	660 Feet	636 Feet
Railroad:	5280 Feet	5280 Feet
Property Line:	402 Feet	1 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, and Designated Outside Activity Area - as defined in 100-Series Rules.
- For measurement purposes only, Production Facilities should only include those items with an asterisk(*) on the Facilities Tab.

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: 01/31/2018

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.

The location of the Production Facility depicted in the Location Drawing has been placed to minimize the impact to future development and provide the most screening from 95th ave and HWY 34 business . In addition, the location for siting the multi-well Production Facility as described provides easy access, consolidated surface impact and the least disturbance to current and future agricultural operations. The facility is also situated outside of the floodplain and situated centrally to both the North and South bank of Bost wells. The location will help not increase tanks, additional infrastructure and additional disturbance.

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: 51:Otero sandy loam, 1 to 3 percent slopes

NRCS Map Unit Name: 32: Kim loam, 1 to 3 percent slopes

NRCS Map Unit Name: 37: Nelson fine sandy loam, 0 to 3 percent slopes

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: 0 Feet

water well: 639 Feet

Estimated depth to ground water at Oil and Gas Location 10 Feet

Basis for depth to groundwater and sensitive area determination:

Wetlands +/- 3' SW, +/- 41' S and +/- 913 SE along with pond 477' to the S. Ditches were dry at time of survey, one being in middle of pad would be 0 feet.

There is a water well not depicted on the COGCC site that we placed on our drawing based on our surveyor's information which I noticed above is 639 feet away. However since it is not listed on COGCC site, I am noting permit 391085 static water above.

Permit # 391085
Distance and direction from DA 3899' NE
Static Water Level = 10'

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 318A

WILDLIFE

☐ This location is included in a Wildlife Mitigation Plan

☐ This location was subject to a pre-consultation meeting with CPW held on _____

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

The reference well for this 48 multi well pad, is Bost Farm 26N-8B-L.

Lot 2 in the NW 1/4 is greater than 40 acres, so the SHL is listed as if the Qtr were divided into QtrQtr.

SRC Energy Inc. is preparing a "Minor Subdivision" application (link below) with the City of Greeley to adjust the current property line on the Bost Farm to account for the addition of 12th/14th Avenue. The new property line(s) will be 211' south from the nearest piece of equipment on the Production Facility and 265' north of the most northern well on the southern pad.

Use by Special Review approval required by City of Greeley.

SRC will fence around the wellheads and facility equipment after interim reclamation. We will also have sound walls as follows:

North Well Pad- Sound Walls
West, North and East

South Well Pad- Sound Walls
West, South and East

Our interim reclamation date is set out in 2021 because for operational reasons SRC Energy plans to develop this 48 well pad in four equal stages of 12 wells each. The following lists the months that drilling and completion operations will begin and end for each stage.

Stage 1: Drilling Beginning & End Month September 2018 to November 2018, Completions Beginning and End Month March 2019 to June 2019

Stage 2: Drilling Beginning & End Month June 2019 to August 2019, Completions Beginning and End Month October 2019 to December 2019.

Stage 3: Drilling Beginning and End Month November 2019 to January 2020, Completions Beginning and End Month May 2020 to August 2020.

Stage 4: Drilling Beginning and End Month September 2020 to December 2020, Completions Beginning and End Month February 2021 to May 2021.

Note: Surface rig will spud these wells first ensuring the Form 2s do not expire. The surface spud will occur well within a year of the production rig dates listed above.

Per Rule 1003 and as clarified in the "Notice to Operators: Interim Reclamation Procedures for Delayed Operations" dated January 5, 2017, interim reclamation does not have to commence if subsequent operations are planned and commenced within 12 months. The NTO defines "Operations" on page 1 to include drilling, completions, hydraulic fracturing, and flowback. As you can see from the above schedule, subsequent operations are planned and will commence within 12 months from the previous operations ending.

If SRC Energy's plans change and the time period extends beyond 12 months, either interim reclamation will commence immediately or a variance request will be filed per the NTO. SRC Energy will ensure the location remains stabilized, weeds are controlled, stormwater management BMPs comply with Rule 1002.f, and the site is kept free of trash and debris throughout this entire time period.

SRC will comply with all MLVT policies and requirements for this pad. For the MLVT, we will plan on 60 days on Location in 4 different installments based upon above schedule.

We are permitting for 2 MLVT's with the following details per MLVT:

42,000 bbl capacity

12' high x 160' diameter

Manufacturer is unknown at this time. Potential: PCI Manufacturing, Pinnacle, Southern Frac, or Big Holdings.

SRC will comply with all MLVT policies and requirements for this pad.

All Traffic Plans are approved per our access permit, part of the access permitting process.

Since SRC is the Surface Owner, we waive ourselves from Rule 318A.a. & 318A.c.

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

Signed: _____ Date: 03/14/2018 Email: eekblad@srcenergy.com

Print Name: Erin Ekblad Title: Manager Regulatory Affair

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: _____ Director of COGCC Date: 8/24/2018

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 post an approved copy of the Form 2A on the location during all construction, drilling, and well completion activities.
	To further protect the adjacent wetland, the operator shall mark and/or fence the boundary of the wetland and all oil and gas activities will remain outside of the wetland. Operator shall take any and all measures necessary to prevent a spill or release onsite from impacting the wetlands. Should a spill or release occur onsite that impacts the wetland, any and all necessary cleanup activities will be authorized under Nationwide Permit 20 and be reported to the COGCC.

Best Management Practices

No BMP/COA Type

Description

1	Planning	604.c(2)M. Fencing: A meeting with the surface owner will determine a fencing plan. Since SRC is the surface owner, SRC will fence around the wellheads and facility equipment after interim reclamation.
2	Planning	804. Visual Impacts: All long term facility structures will be painted a color that enables the facilities to blend in with the natural background color of the landscape, as seen from a viewing distance and location typically used by the public. Maintain appearance with garbage clean-up; a trash bin will be located on site to accumulate waste by the personnel drilling the wells. Site will have unused equipment, trash and junk removed immediately.
3	Planning	604.c.(2)N. Control of fire hazards: All material that is considered a fire hazard shall be a minimum of 25' from the wellhead tanks or separators. Electrical equipment shall comply with API IRP 500 and will comply with the current national electrical code. 606A.d. Flammable liquids shall not be stored within fifty (50) feet of the wellbore, except for the fuel in the tanks of operating equipment or supply for injection pumps. Where terrain and location configuration do not permit maintaining this distance, equivalent safety measures should be taken.
4	Traffic control	604.c.(2)S. Access Roads: The access road will be constructed to accommodate local emergency vehicles. This road will be maintained for access at all times. Traffic will be routed to minimize local interruption. Dust control measures will also be utilized., which we will use Magnesium Chloride to control dust.
5	Traffic control	RULE 604.c.(2)D: If required by the local government, a traffic plan shall be coordinated with the local jurisdiction prior to commencement of move in and rig up. Any subsequent modification to the traffic plan must be coordinated with the local jurisdiction. Our access permit to location is our notification to Weld County, the city of Greeley, or additional municipality if necessary for approved traffic routes, and traffic control. All Traffic Plans are approved per our access permit, part of the access permitting process
6	General Housekeeping	604.c.(2)P. Trash Removal: All trash, debris and material not intrinsic to the operation of the oil and gas facility shall be removed and legally disposed of as applicable.

7	Storm Water/Erosion Control	SRC will also put a berm on our pad that will contain any storm water. SRC will install a pipe with a valve that we can close so we can control and run off as well as any spill. The natural drainage in this area is to flow south east. When we do let storm water go from our pad it is through our sediment trap so we control where the water is going and to help with sediment. As mentioned above SRC does have a controlled valve that we can shut in the event of a spill to protect the wetland.
8	Material Handling and Spill Prevention	604.c.(2)F. Leak Detention Plan: Pumper will visit the location daily and visually inspect all tanks and fittings for leaks. Additionally, monthly documented SPCCP inspections are conducted pursuant to 40 CFR 112.
9	Material Handling and Spill Prevention	604.c.(2)R Tank Specifications: Tanks will be designed, constructed and maintained in accordance with NFPA Code 30. The tanks are visually inspected once a day for issues, and recorded inspections are conducted once a month.
10	Construction	604.c.(3)B. Berm Construction. Tank berms shall be constructed of steel rings with a synthetic or engineered liner and designed to contain 150% of the capacity of the largest tank. All berms will be visually checked periodically to ensure proper working condition. Secondary containment devices shall be sufficiently impervious to contain any spilled or released material. Tertiary containment, such as an earthen berm, will be installed around production facilities. SRC will put steel berms around all of our separators at this location.
11	Construction	803 Light sources during all phases of operations will be directed downwards and away from occupied structures where possible. Once the drilling and completion rigs leave the site, lighting usually exists on the entrance/exit doors to the LACT units and Instrument Air skids, all for safety. The light fixtures need to be specified as "shine down" with appropriate shields.
12	Construction	604.c.(2).Q. All guy line anchors left buried for future use shall be identified by a marker of bright color not less than four (4) feet in height and not greater than one (1) foot east of the guy line anchor.
13	Construction	604.c.(2).E. This will be a multi-well pad.
14	Construction	SRC will have ditch and berm with designated sediment traps that water will run through before entering the natural drainage and into the wet land. Also the city of Greeley is requiring SRC to install silt fence around our locations that will also help. To further protect the adjacent wetland, the boundary will be marked and/or fenced to ensure that all work and fill will remain outside of the wetland boundary. Should a release occur onsite that impacts the wetland, any necessary cleanup activities will be authorized under Nationwide Permit 20.
15	Noise mitigation	604.c.(2)A. Sound walls will be used where necessary to surround the well site during drilling operations, which SRC has decided to add sound walls as follows: We will have sound walls as follows: North Well Pad- Sound Walls West, North and East South Well Pad- Sound Walls West, South and East
16	Emissions mitigation	Green Completions - Emission Control System: Test separators and associated flow lines and sand traps shall be installed on-site to accommodate green completions techniques pursuant to COGCC Rules. The flowback gas shall be sold or shall be captured and combusted with an Emissions Control Device (ECD), which will be installed and kept in operable condition for least the first 90-days of production pursuant to CDPHE rules. This ECD shall have an adequate capacity for 1.5 times the largest flowback within a 10 mile radius, and will be piped to other or permanent equipment and shall be provided with the equipment needed to maintain combustions where non-combustible gases are present. There is a sales line available, at the first sign of salable quality gas SRC Energy will turn the gas to a sales line.
17	Odor mitigation	805: Oil & gas facilities and equipment shall be operated in such a manner that odors and dust do not constitute a nuisance or hazard to public welfare.

18	Drilling/Completion Operations	604.c.(2).K. Pit level Indicators - For the rig pits (steel tanks) we utilize the Pason PVT (Pit Volume Totalizer) system in conjunction with the EDR (Electronic Depth Recorder) systems on both rigs which incorporate digital recording of pit volumes, settable alarms for gain and loss so we are able to track the pit volumes. These items are standard on a 5K system which is what we are permitting for.
19	Drilling/Completion Operations	604.c.(2).O. Drilling and Completion-All loadlines shall be bullplugged or capped.
20	Drilling/Completion Operations	SRC will comply with all MLVT policies and requirements for this pad.
21	Drilling/Completion Operations	604.c.(2)B.i Operator will be utilizing a closed loop system.
22	Drilling/Completion Operations	For the OBM system, the base fluid is D822. The fluid is a refined product that has low VOC and BTEX counts. The BTEX counts are trace levels so this provides a much safer work environment as compared to diesel. The product has a reduction in aromatic compounds when compared to diesel so the odor emitted by the fluid is minimal. The flash point is 85°F higher than diesel which increases the overall safety of the product. During our drilling operations we average 5-6 loads of cuttings hauled off per day to a disposal facility. During the platting process of every location, special consideration is payed to the orientation of the rig with respect to surrounding residential units. When possible, the generators will be placed on the far side of location away from surrounding occupied units. Prevailing wind direction is taken into consideration when planning a location in order to mitigate odor, and noise from being a nuisance to the surrounding stakeholders. When possible, the rig is oriented in a way in which residential units are upwind from the location. Hydrocarbon odors from production facilities are minimize and eliminated by keeping all product inside pipe, separators, tanks, and combustors. Uncommon leaks are discovered by frequent FLIR camera inspections and immediately repaired. All tanks are sealed with best available industry thief hatches and gaskets. Tank vapors are captured with properly sized piping and combustors.
23	Final Reclamation	604.c.(2)T. Within 90 days subsequent to the time of plugging and abandonment of the entire site, superfluous debris and equipment shall be removed from the site. Identification of plugged and abandoned wells will be identified pursuant to 319.a.(5)
24	Final Reclamation	604.c.(2).U. Final Reclamation-The operator shall identify the location of the wellbore with a permanent monument as specified in Rule 319.a.(5). The operator shall also inscribe or imbed the well number and date of plugging upon the permanent monument.

Total: 24 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
2478600	NRCS MAP UNIT DESC
2478601	RULE 306.E. CERTIFICATION
2478602	CORRESPONDENCE
2478782	ACCESS ROAD MAP
2478783	OTHER
2478784	FACILITY LAYOUT DRAWING
2478785	LOCATION PICTURES
2478786	HYDROLOGY MAP
2478787	LOCATION DRAWING
2478788	LOCATION PICTURES
2478789	MULTI-WELL PLAN
2478790	OTHER
2478791	RECLAMATION PLAN DRAWING
401552974	FORM 2A SUBMITTED
401564156	WASTE MANAGEMENT PLAN
401564204	NRCS MAP UNIT DESC
401564205	NRCS MAP UNIT DESC
401564238	NRCS MAP UNIT DESC
401567012	PRE-APPLICATION NOTIFICATION CERTIFICATION

Total Attach: 19 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Permitting review complete, passed Final Review.	08/20/2018
OGLA	Operator provided updated Facility Layout Drawing, Location Drawing, Location Pictures, Hydrology Map, Multi-Well Plan, Access Road Map, Reclamation Plan Drawing, Notification Zone Drawing, & Cultural Distance summary attachments following their meeting with the City of Greeley.	08/16/2018
OGLA	Siting Rationale review completed by OGLA Supervisor. OGLA task passed.	06/28/2018
OGLA	IN PROCESS - Operator provided an additional NRCS Map Unit Description attachment, revised the Water Resources section to indicate NO the location is not in a riparian area, concurred with adding a COA concerning mark the boundary of nearby wetland, & provided the Rule 306.e. Certification letter. OGLA review completed. Waiting on Siting Rationale review by OGLA Supervisor.	04/25/2018
OGLA	ON HOLD - Requested operator provide an additional NRCS Map Unit Description attachment, revise the Water Resources section to indicate NO the location is not in a riparian area, concur with adding a COA concerning mark the boundary of nearby wetland, & provide the Rule 306.e. Certification letter. Due by 5/13/18.	04/12/2018

LGD	<p>The City of Greeley is reviewing an application for local land use approval from the applicants for this proposed oil and gas facility (Planning File No. USR 17:17). The City respectfully requests that the State withhold approval of any State permit until the operator successfully receives local land use approval, in this instance a Use by Special Review.</p> <p>Review comments have been provided to the operator, and discussions are on-going. Comments of note include:</p> <ul style="list-style-type: none"> •Areas of Ecological Significance – The proposed site is located in Areas of Ecological Significance as identified by the City of Greeley. Staff is aware of known raptors in the area. A Biologist Report will be required to identify potential impacts and mitigation measures. •Landscaping – The applicant will be required to screen the site and buffer from adjacent residential development. •Transportation – The applicant will be required to extend any stubbed streets through the development; this includes 12th/14th Street, identified as a collector. <p>Please contact City staff for a copy of the review comments and latest working design used as part of review.</p> <p>If the COGCC does not withhold approval, the City then requests that the State application be approved with the condition that the 2A Permit be subsequently formally amended to incorporate any site and/or operational standards that gets finalized through the local Use by Special Review approval. The City believes this deference is consistent with, and in the spirit of, the standing Memorandum of Understanding between the City of Greeley and the COGCC, and at the same time the City acknowledges the State's right to determine areas of operational conflict that would otherwise prohibit the incorporation of such standards into an Amended Form 2A Permit.</p> <p>City of Greeley LGD Comments</p> <p>Brad Mueller</p> <p>Brad.Mueller@greeleygov.com</p> <p>(970)350-9786</p>	04/11/2018
Permit	<p>Passed Completeness.</p> <p>Per communication with the Operator, the following corrections were made:</p> <ul style="list-style-type: none"> - "Surface & Minerals" tab: corrected surface owner and right to construct check boxes/drop downs 	03/23/2018
Permit	<p>Passed OGLA Buffer Zone Review on 3/22/2018, per email notification.</p>	03/22/2018
Permit	<p>Referred to OGLA Supervisor for buffer zone review.</p>	03/15/2018

Total: 9 comment(s)