

FORM
2A
Rev
05/22

State of Colorado Energy & Carbon Management Commission

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Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:
403099558
(SUBMITTED)
Date Received:
02/02/2023

Oil and Gas Location Assessment

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

Location ID:
OGDP ID:
Expiration Date:

New Location Refile Amend Existing Location # _____

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

Docket Number	OGDP ID	OGDP Name
230100033		

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

<No existing OGDP number provided>

CONSULTATION

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

Operator

Operator Number: 10459
Name: EXTRACTION OIL & GAS INC
Address: 370 17TH STREET SUITE 5200
City: DENVER State: CO Zip: 80202

Contact Information

Name: Nathan Bennett
Phone: (303) 312-8166
Fax: ()
email: nbennett@civiresources.com

FINANCIAL ASSURANCE FOR THIS LOCATION (check all that apply)

- Plugging, Abandonment, and Reclamation 20130028
- Centralized E&P Waste Management Facility _____
- Gas Gathering, Gas Processing, and Underground Gas Storage Facilities _____
- Surface Owner Protection Bond. _____

Federal Financial Assurance

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

Amount of Federal Financial Assurance \$ _____

LOCATION IDENTIFICATION

Name: Washington Number: Pad

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

Quarter: NWSE Section: 10 Township: 1S Range: 68W Meridian: 6 Ground Elevation: 5185

Latitude: 39.978580 Longitude: -104.984548

GPS Quality Value: 1.4 Type of GPS Quality Value: PDOP Date of Measurement: 02/25/2022

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 #

RELEVANT LOCAL GOVERNMENT SITING INFORMATION

County: ADAMS Municipality: Thornton

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

This proposed Oil and Gas Location is in an area designated as one of State interest and subject to the requirements of § 24-65.1-108, C.R.S. No

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

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

Date Relevant Local Government permit application submitted: _____

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

Status/disposition date: 11/29/2022

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

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

Contact Name: Collin Wahab Contact Phone: 303-538-7200

Contact Email: Collin.Wahab@thorntonco.gov

PROXIMATE LOCAL GOVERNMENT INFORMATION

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

Type of Proximate Govt	County	Municipality	Contact Name	Contact Phone	Contact Email
County	ADAMS	N/A	Greg Dean	720-523-6891	gdean@adcogov.org
County	BROOMFIELD	N/A	David Stainback	303-552-7315	dbrouillard@broomfield.org

FEDERAL PERMIT INFORMATION

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

Date submitted: _____

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

Status/disposition Date: _____

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

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

Contact Name: _____ Contact Phone: _____

Contact Email: _____

Field Office: _____

Additional explanation of local and/or federal process:

Operator and the Relevant Local Government have entered into an "Operator Agreement" governing the proposed Washington OGD and associated appurtenances. A copy of this agreement has been uploaded in the ATTACHMENTS as "LOCAL/FED FINAL PERMIT DECISION".

RELEVANT LOCAL GOVERNMENT OR FEDERAL PRE-APPLICATION CONSULTATION

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

Did a pre-application Formal Consultation Process occur with the Relevant Local Government per Rule 301.f.(3)? Yes

Date of local government consultation: 04/28/2022

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

Date of federal consultation: _____

Was an ALA that satisfies Rule 304.b.(2).C (or substantially equivalent information per Rule 304.e) developed during a federal or local government permit application process? If yes, attach the ALA to the Form 2A. Yes

ALA APPLICABILITY AND CRITERIA

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

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

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

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

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

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

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

ALTERNATIVE LOCATIONS DASHBOARD

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

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

#	latitude	longitude	i	ii	iii	iv	v	vi	vii	viii	ix	x	Variance Required?	Comments
	39.973104	-104.985438	x					x						ALA #1 - 19 RBUs, 32 BU
	39.974384	-104.973384	x	x				x						ALA #4 - 5 RBUs, 1 HOBUs (Childcare Facility)
	39.981211	-104.972308	x						x					ALA #3 - 11 RBUs, within HPH
	39.970659	-104.974279	x	x				x						ALA #5 - 7 RBUs, 1 HOBUs (Childcare Facility), 22 commercial BU, (3 Warehouses - combined sqft 340,541)
	39.967367	-104.985789	x	x				x						ALA #2 - 13 RBUs, 11+ HOBUs (Childcare facility, Apartment buildings), multiple commercial BUs
	39.981832	-104.964865	x							x				ALA #6 - 162 RBUs

SURFACE & MINERAL OWNERSHIP

Surface Owner Info:

Name: Sands Partners, LLC

Phone: _____

Address: 1433 E 7th Avenue

Fax: _____

Address: _____

Email: soniadanielsen@icloud.com

City: Denver State: CO Zip: 80218

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

Check only one:

The Operator/Applicant is the surface owner.

The Operator has a signed Surface Use Agreement for this Location – attach SUA.

All operations on this Oil & Gas Location will develop the minerals beneath the Location, and the surface owner owns the minerals beneath this Location and is committed to an oil and gas lease – attach lease map or provide lease description.

All operations on this Oil & Gas Location will develop the minerals beneath the Location, and the Operator intends to use a surface bond per Rule 703 to secure access to this Location – attach lease map or provide lease description.

Surface Owner protection Financial Assurance type: N/A

Surety ID Number: _____

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

Minerals beneath this Oil and Gas Location will be developed from or produced to this Oil and Gas Location: No

Lease description if necessary: _____

SITE EQUIPMENT LIST

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

Wells	<u>10</u>	Oil Tanks	<u>0</u>	Condensate Tanks	<u>0</u>	Water Tanks	<u>0</u>	Buried Produced Water Vaults	<u>0</u>
Drilling Pits	<u>0</u>	Production Pits	<u>0</u>	Special Purpose Pits	<u>0</u>	Multi-Well Pits	<u>0</u>	Modular Large Volume Tank	<u>1</u>

Pump Jacks	0	Separators	10	Injection Pumps	0	Heater-Treaters	0	Gas Compressors	2
Gas or Diesel Motors	0	Electric Motors	0	Electric Generators	0	Fuel Tanks	0	LACT Unit	0
Dehydrator Units	0	Vapor Recovery Unit	0	VOC Combustor	0	Flare	0	Enclosed Combustion Devices	1
Meter/Sales Building	2	Pigging Station	3	Vapor Recovery Towers	0				

OTHER PERMANENT EQUIPMENT

Permanent Equipment Type	Number
Surge Vessels	2
Compressor Sump	1
Instrument Air Skid	1
HP 2 Extension Skid	1
Oil Pump Skids	4
Maintenance Vessel	1
Water Pump Skids	3
Fuel Gas Scrubber	1
HP 2 Phase Skid	1
Water Coolers	2
LP Scrubber Skid	1
Electric Pad	1

OTHER TEMPORARY EQUIPMENT

Temporary Equipment Type	Number
Temporary Tanks	12
Sand Knockouts	10
Fracking Tank (Sand Flowback)	1

GAS GATHERING COMMITMENT

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

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

FLOWLINE DESCRIPTION

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

Flowlines servicing the ten (10) wells proposed for this pad will be On-Location flowlines. These lines will run from the wellheads in a northerly direction to the individual separators. The separators will be tied into 3rd party midstream gathering lines in the NW corner of the working pad surface.

CULTURAL DISTANCE AND DIRECTION

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

	Distance	Direction	Rule 604.b Conditions Satisfied (check all that apply):			Details of Condition(s)	604.b. (4)
			604.b. (1)	604.b. (2)	604.b. (3)		
Building:	1766 Feet	SW					
Residential Building Unit (RBU):	1820 Feet	SW	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Nearest RBU is 2025' SW from the closest wellhead (or permanent equipment).	<input type="checkbox"/>
High Occupancy Building Unit(HOBU)	2792 Feet	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Designated Outside Activity Area:	5280 Feet	W					
Public Road:	186 Feet	NW					

Above Ground Utility: 288 Feet NE
 Railroad: 5280 Feet W
 Property Line: 38 Feet N
 School Facility: 5280 Feet SE
 Child Care Center: 2935 Feet SE
 Disproportionately Impacted (DI) Community: 1095 Feet NW
 RBU, HOBV, or School Facility within a DI Community: 4195 Feet NW _____

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

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

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

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

	0-500 feet	501-1,000 feet	1,001-2,000 feet
Building Units	<u>0</u>	<u>0</u>	<u>3</u>
Residential Building Units	<u>0</u>	<u>0</u>	<u>3</u>
High Occupancy Building Units	<u>0</u>	<u>0</u>	<u>0</u>
School Properties	<u>0</u>	<u>0</u>	<u>0</u>
School Facilities	<u>0</u>	<u>0</u>	<u>0</u>
Designated Outside Activity Areas	<u>0</u>	<u>0</u>	<u>0</u>

CONSTRUCTION

Size of disturbed area during construction in acres: 14.20
 Size of location after interim reclamation in acres: 3.64
 Estimated post-construction ground elevation: 5183

DRILLING PROGRAM

Will a closed-loop drilling system be used? Yes
 Is H2S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No If YES, attach H2S Drilling Operations Plan.
 Will salt sections be encountered during drilling: No
 Will salt based (>15,000 ppm Cl) drilling fluids be used? No
 Will oil based drilling fluids be used? Yes

DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE

Drilling Fluids Disposal Method: Recycle/reuse

Cutting Disposal: OFFSITE

Cuttings Disposal Method: Commercial Disposal

Other Disposal Description:

Operator will employ IOGP Group III drilling fluids during drilling operations.

Beneficial reuse or land application plan submitted? _____

Reuse Facility ID: _____ or Document Number: _____

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

CURRENT LAND USE

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

Crop Land: Irrigated Non-Irrigated Conservation Reserve Program (CRP)

Non-Crop Land: Rangeland Forestry Recreation Other

Subdivided: Industrial Commercial Residential

Describe the current land use:

Undeveloped, non-irrigated fallow land that has been mowed and/or tilled at regular intervals.

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

Planned Development; intended future land use is designated as "Employment Center -Warehouse Overlay".

Describe any applicable Federal land use designation:

FINAL LAND USE

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

Crop Land: Irrigated Non-Irrigated Conservation Reserve Program (CRP)

Non-Crop Land: Rangeland Forestry Recreation Other

Subdivided: Industrial Commercial Residential

REFERENCE AREA INFORMATION

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

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

Reference Area Latitude: _____ Reference Area Latitude: _____

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

< No row provided >

Noxious weeds present: No

SOILS

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

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

NRCS Map Unit Name: 2tln0 - Platner loam 0-3% slopes (PIB)

NRCS Map Unit Name: 2tlmz - Platner loam 3-5% slopes (PIC)

NRCS Map Unit Name: 34x4 - Ulm loam 3-5% slopes (UIC)

GROUNDWATER AND WATER WELL INFORMATION

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

water well: 1624 Feet S

Spring or Seep: 800 Feet SW

Estimated depth to shallowest groundwater that can be encountered at this Oil and Gas Location: 13 Feet

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

Operator reviewed DWR files from water wells identified in the area. DWR records indicate the nearest well is either 1) a shallow, dewatering well (DWR_2734296 which appears to be erroneously plotted and is excluded from the nearest water well), or 2) deep irrigation wells (i.e., DWR 8583-AD, DWR-8994-F). Therefore, estimated depth to groundwater is based on a shallow, subsurface geotechnical investigation performed S-SE of the proposed Oil & Gas Location in 2020. Reference Point 39.9746883, -104.9810974.

SURFACE WATER AND WETLANDS

Provide the distance and direction to the nearest downgradient surface Waters of the State, as defined 744 Feet E

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

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

Provide the distance and direction to the nearest downgradient wetland, measured from the Working

Pad Surface: 125 Feet N

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

FRICO's Bull Canal - a seasonal irrigation ditch is located 744' from the eastern edge of the proposed working pad surface. There is a small portion of the Bull Canal that is approximately 191' east of the location that is abandoned and inactive.

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

Public Water System Administrator - Contact Name _____ Email _____

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

Public Water System Administrator - Contact Name _____ Email _____

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

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

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

Federal (FEMA) State County Local

Other

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

CONSULTATION, WAIVERS, AND EXCEPTIONS

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

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

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

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

Pre-application Consultation:

- A pre-application consultation with CPW, regarding this Oil and Gas Location, occurred on: _____

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

- The applicant has obtained a Rule 304.b.(2).B.viii CPW waiver for the requirement to complete an ALA.
- The applicant has obtained a Rule 309.e.(2).G CPW waiver and consultation is not required.
- The applicant has obtained a Rule 309.e.(5).D.i CPW waiver and is requesting an exception from Rule 1202.c.(1).R.
- The applicant has obtained a Rule 309.e.(5).D.ii CPW waiver and is requesting an exception from Rule 1202.c.(1).S.
- The applicant has obtained a Rule 309.e.(5).D.iii CPW waiver of Rule 1202.c.(1).T.
- The applicant has obtained a Rule 309.e.(5).D.iv CPW waiver and is requesting an exception from Rule 1202.c.(1) in accordance with an approved CAP.
- The applicant has obtained a Rule 1202.a CPW waiver.
- The applicant has obtained a Rule 1202.b CPW waiver.
- In accordance with Rule 1203.a.(3), the applicant requests an exception from compensatory mitigation Rule(s): _____

HIGH PRIORITY HABITAT AND COMPENSATORY MITIGATION

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

< No row provided >

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

Direct Impacts:

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

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

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

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

N/A

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

Direct impact habitat mitigation fee amount: \$ _____

Indirect Impacts:

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

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

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

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

N/A

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

Indirect impact habitat mitigation fee amount: \$ _____

Operator Proposed Wildlife BMPs

No BMP

AIR QUALITY MONITORING PROGRAM

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

Operator Proposed BMPs

No BMP

PLANS

Total Plans 15
Uploaded:

- (1) Emergency Spill Response Program consistent with the requirements of Rules 411.a.(4).B, 411.b.(5).B, & 602.j
- (2) Noise Mitigation Plan consistent with the requirements of Rule 423.a
- (3) Light Mitigation Plan consistent with the requirements of Rule 424.a
- (4) Odor Mitigation Plan consistent with the requirements of Rule 426.a
- (5) Dust Mitigation Plan consistent with the requirements of Rule 427.a
- (6) Transportation Plan
- (7) Operations Safety Management Program consistent with the requirements of Rule 602.d

- (8) Emergency Response Plan consistent with the requirements of Rule 602.j
- (9) Flood Shut-In Plan consistent with the requirements of Rule 421.b.(1)
- (10) Hydrogen Sulfide Drilling Operations Plan consistent with the requirements of Rule 612.d
- (11) Waste Management Plan consistent with the requirements of Rule 905.a.(4)
- (12) Gas Capture Plan consistent with the requirements of Rule 903.e
- (13) Fluid Leak Detection Plan
- (14) Topsoil Protection Plan consistent with the requirements of Rule 1002.c
- (15) Stormwater Management Plan consistent with the requirements of Rule 1002.f
- (16) Interim Reclamation Plan consistent with the requirements of Rule 1003
- (17) Wildlife Plan consistent with the requirements of Rule 1201
- (18) Water Plan
- (19) Cumulative Impacts Plan
- (20) Community Outreach Plan
- (21) Geologic Hazard Plan

VARIANCE REQUESTS

Check all that apply:

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

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

RULE 304.d LESSER IMPACT AREA EXEMPTION REQUESTS

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

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

OPERATOR COMMENTS AND SUBMITTAL

Comments

The Washington Pad will be a tankless facility with oil, natural gas, and produced water takeaway. Additional BMPs, as captured in Exhibit B of the Operator Agreement, include but are not limited to the utilization of a production rig and all permanent production equipment that shall be powered by electric line power.

The proposed location is located w/in the generalized GUDI/Type III aquifer buffer zone. The subject water well (DWR Permit #266446-A) was field verified and is located more than 2640' from the edge of the proposed Working Pad Surface.

Operator certifies that the MLVTs will be designed and implemented consistent with the COGCC Policy on the Use of Modular Large Volume Tanks in Colorado. MLVT Design Package, certified and sealed by a licensed professional engineer, is available upon request.
 Manufacturer of MLVT: Hydrologistics (note - Operator reserves the right to employ MLVTs from a different manufacturer based on availability).
 Size and Volume: One (1) MLVT, approximately 190' diameter and capable of storing ~61,000 BBLs of freshwater.
 Anticipated time frame: 60 days.

CULTURAL DISTANCES: there is three (3) RBU w/in 2000' of the proposed Working Pad Surface. Distances subject to Rule 604.b.(3) are as follows:
 RBU from nearest well: 2025' SW
 RBU from nearest permanent production equipment: 2020' SW

Additional NRCS Map Unit Description: 34x5 - Ulm loam 5-9% slopes (UID)

Landowners final land use: Proposed future development is described as "an industrial park containing seven (7) buildings" as contained in the "LPC Mile High Once Conceptual Site Plan" submitted to City of Thornton on or about 01/11/2022.

The temporary Fracking Tank stores flowback sand and does not generate any emissions.

A Wildlife Management Plan was uploaded but a consultation was not required since there weren't any species that required consultation per COGCC Rule 309.e.(1).

The Emergency Response Plan is being reviewed by Thornton Fire Department. When approval has been secured, operator will notify ECMC staff.

Operator has requested an ECMC Rule 1202.a.(3) CPW waiver for the wetlands within 500' of the proposed working pad surface. Once the executed waiver is received it will be provided to staff.

Operator is in the process of consulting with the three (3) RBUs within 2000' of the working pad surface, once consultations have been completed a summary will be provided to ECMC staff.

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

Signed: _____ Date: 02/02/2023 Email: jannable@civiresources.com

Print Name: Jeff Annable Title: Manager, Permitting

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
0 COA	

Best Management Practices

No BMP/COA Type	Description
1 General Housekeeping	Biohazardous waste will be stored in a portable toilet with an approximate capacity of 34 gallons. It is estimated that it will be emptied 2 times a week and taken to a commercial disposal facility.
2 General Housekeeping	<p>Minimizing lighting when not needed using timers or motion sensors ("use only the lights you need").</p> <p>Operator will use lighting colors that reduce light intensity.</p> <p>Operator will use low-glare and no-glare lighting.</p> <p>Operator shall direct site lighting downward and inward, such that no light shines above a horizontal plane passing through the center point of the light source, with lights hidden by the sound wall.</p> <p>Operator will place bulbs within fixtures that obscure, block, or diffuse the light to reduce light intensity outside the boundaries of the oil and gas location.</p> <p>Operator will not install permanent production lighting</p>
3 Noise mitigation	<p>Idling Equipment – While idling engine/equipment, maintain at the lowest frequency possible, as well as, in a position/location that will prevent sound from carrying to nearby residents.</p> <p>Unnecessary Sounds – Unnecessary sounds such as honking the horn, revving vehicle engines, loud music, and unwarranted metal hammering/banging are all examples of sound that can create nuisance; failure to eliminate unnecessary sound from location will be subject to an internal compliance assessment if reported by a landowner.</p> <p>Sound walls will be provided by a third-party vendor. A 32' tall, STC – 32 rated acoustic paneled, engineered sound wall, or similar, will be utilized.</p> <p>The construction phase is scheduled to last, at this time, approximately 12 weeks. At the time of this NMP, Patterson 345 is scheduled to be utilized for the drilling of the Washington location. Patterson 345 will be equipped with highline power, instead of Tier II diesel engines, for use at the Washington location. Rigs have been designed and equipped with sound mitigating equipment including devices to minimize squeaking from the draw works brakes. The drill phase is scheduled to last, at this time, for approximately 8 weeks.</p> <p>A quiet frac fleet will be used during the completion phase. The frac is scheduled, at this time, to last for approximately 13 weeks.</p>
4 Emissions mitigation	Operator will utilize a Tier IV or equivalent completion fleet for hydraulic fracturing operations.
5 Odor mitigation	<p>Operator will use a filtration system and additives to the drilling and fracturing fluids to minimize odors.</p> <p>Operator shall utilize a closed-loop, pit-less mud system for managing drilling fluids.</p> <p>Operator shall employ the use of IOGP Group III drilling fluids with extremely limited levels of total aromatics and polycyclic aromatic hydrocarbons during drilling operations after the surface casing is set and freshwater aquifers are protected.</p> <p>Operator shall remove drill cuttings daily and as soon as waste containers are full.</p> <p>Operator shall employ pipe cleaning procedures when removing drill pipe from the hole; these procedures may include "wiping" the pipe before racking it in the derrick.</p> <p>If a justified complaint is received, Operator may utilize a mud-chiller to reduce odor breakout and increase concentration of odor-mitigating additives in mud system.</p> <p>Operator will utilize a maintenance vessel system which eliminates venting from the location.</p> <p>Operator will utilize a pneumatic air system to power the facilities on location which will eliminate the small amount of venting that would normally occur during production operations.</p>

Total: 5 comment(s)

Attachment List

<u>Att Doc Num</u>	<u>Name</u>
403131250	SURFACE AGRMT/SURETY
403277421	LOCAL/FED FINAL PERMIT DECISION
403305597	SURFACE PLAN
403305615	NRCS MAP UNIT DESC
403305716	LGD CONSULTATION
403516776	LAYOUT DRAWING
403516781	ACCESS ROAD MAP
403516784	WILDLIFE HABITAT DRAWING
403516808	DIRECTIONAL WELL PLAT
403517591	CULTURAL FEATURES MAP
403517849	LOCATION AND WORKING PAD GIS SHP
403517860	PRELIMINARY PROCESS FLOW DIAGRAMS
403518727	LOCATION PICTURES
403518737	RELATED LOCATION AND FLOWLINE MAP
403518742	LOCATION DRAWING
403518753	GEOLOGIC HAZARD MAP
403519313	ALA DATASHEET
403519315	ALA NARRATIVE SUMMARY
403519360	HYDROLOGY MAP
403519361	CONSULTATION SUMMARY
403551936	CPW WAIVER

Total Attach: 21 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
OGLA	Returned to DRAFT for the following reasons: Attachment corrections.	10/05/2023

Total: 1 comment(s)

Public Comments

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

