

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:

401669129

Date Received:

06/11/2018

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

Location ID:

477204

Expiration Date:

07/12/2023☒ 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: 10670

Name: MALLARD EXPLORATION LLC

Address: 1400 16TH STREET SUITE 300

City: DENVER State: CO Zip: 80202

Contact Information

Name: Erin Mathews

Phone: (720) 543 7951

Fax: ()

email: emathews@mallardexploration.com

FINANCIAL ASSURANCE

- ☒ Plugging and Abandonment Bond Surety ID (Rule 706): 20170115 ☐ Gas Facility Surety ID (Rule 711): _____
- ☐ Waste Management Surety ID (Rule 704): _____

LOCATION IDENTIFICATION

Name: Ancona Number: Pad

County: WELD

Quarter: NESE Section: 29 Township: 8N Range: 61W Meridian: 6 Ground Elevation: 5010

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: 2253 feet FSL from North or South section line

532 feet FEL from East or West section line

Latitude: 40.631467 Longitude: -104.222601

GPS Quality Value: 1.2 Type of GPS Quality Value: PDOP Date of Measurement: 06/04/2018

Instrument Operator's Name: Ian Carabajal

LOCAL GOVERNMENT INFORMATION

County: WELD 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: WOGLA

The local government siting permit was filed on: 04/19/2020

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

Additional explanation of local process:

1041 WOGLA20-0024 was approved on 6/11/2020.

RELATED REMOTE LOCATIONS

(Enter as many Related Locations as necessary. Enter the Form 2A document # only if there is no established COGCC Location ID#)

This proposed Oil and Gas Location is: LOCATION ID # FORM 2A DOC #



FACILITIES

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

Wells	<u>7</u>	Oil Tanks*	<u>14</u>	Condensate Tanks*	<u> </u>	Water Tanks*	<u>7</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>7</u>	Separators*	<u>7</u>	Injection Pumps*	<u> </u>	Cavity Pumps*	<u> </u>	Gas Compressors*	<u>2</u>
Gas or Diesel Motors*	<u>7</u>	Electric Motors	<u>7</u>	Electric Generators*	<u>2</u>	Fuel Tanks*	<u> </u>	LACT Unit*	<u>2</u>
Dehydrator Units*	<u> </u>	Vapor Recovery Unit*	<u>4</u>	VOC Combustor*	<u>4</u>	Flare*	<u> </u>	Pigging Station*	<u> </u>

OTHER FACILITIES*

Other Facility Type	Number
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Vapor Recovery Tower	<u>1</u>
Emission Control Devices	<u>4</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:

3" welded steel flowlines from wellheads to separators carrying oil, gas and water.
2" welded steel gas supply line from compressors to wellheads.

CONSTRUCTION

Date planned to commence construction: 02/01/2021 Size of disturbed area during construction in acres: 11.30
Estimated date that interim reclamation will begin: 07/01/2021 Size of location after interim reclamation in acres: 5.20
Estimated post-construction ground elevation: 5008

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?

Reuse Facility ID: or Document Number:

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

SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: Cathy L Schulte

Phone:

Address: 1522 9th Ave

Fax:

Address:

Email:

City: Greeley State: CO Zip: 80631-4611

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: No

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 05/31/2018

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

CURRENT AND FUTURE LAND USE

Current Land Use (Check all that apply):

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

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

Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

Future Land Use (Check all that apply):

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

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

Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

CULTURAL DISTANCE INFORMATION

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

	From WELL	From PRODUCTION FACILITY
Building:	2782 Feet	2702 Feet
Building Unit:	4556 Feet	4101 Feet
High Occupancy Building Unit:	5280 Feet	5280 Feet
Designated Outside Activity Area:	5280 Feet	5280 Feet
Public Road:	2985 Feet	2665 Feet
Above Ground Utility:	2912 Feet	2524 Feet
Railroad:	5280 Feet	5280 Feet
Property Line:	531 Feet	329 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: 44 - Olney fine sandy loam, 0 to 6 percent slopes

NRCS Map Unit Name: 54 - Platner loam, 0 to 3 percent slopes

NRCS Map Unit Name: _____

PLANT COMMUNITY:

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

Are noxious weeds present: Yes ☐ No ☐

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

List individual species:

Check all plant communities that exist in the disturbed area.

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

WATER RESOURCES

Is this a sensitive area: ☒ No ☐ Yes

Distance to nearest

downgradient surface water feature: 2685 Feet

water well: 3850 Feet

Estimated depth to ground water at Oil and Gas Location 109 Feet

Basis for depth to groundwater and sensitive area determination:

Location is not sensitive due to lack of proximate surface water features or domestic water wells. A water well, represented by Division of Water Resources (DWR) Permit #79291-F was not constructed, and the permit has since expired. Nearest constructed water well is DWR Permit #232399--A (southeast). Depth to groundwater taken from water well permit #296222 and 301536 (northwest).

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 _____

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 Since this location is not in a buffer zone, a Waste Management Plan and Facility Layout Drawing are not included. No surface water within 1000', therefore no Hydrology Map is attached.

The Lease operators also conduct CDPHE Regulation 7– Audible, Visual, and Olfactory (AVO) inspections, which focus on the tanks and vapor control system. The Regulation 7 AVO is also a documented inspection. In addition, the sites are inspected with optical gas imaging cameras on a routine schedule, annually for compliance purposes with our Spill Prevention Containment and Countermeasures (SPCC) plan, depending on the status of reclamation the sites are also inspected on either a 14-day, 30-day, annual or rain triggered event in accordance with both the COGCC and the CDPHE Stormwater Management Plans (SWMP).

Manufacturer of MLVT: Hydrologistics
Size and Volume: Up to two (2) 157' diameter/42,000 BBLs
Anticipated time frame on site: 90 days

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

Signed: _____ Date: 06/11/2018 Email: regulatory@ascentgeomatrics.com

Print Name: Justin Garrett Title: Regulatory Analyst

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: 7/13/2020

Surface Owner Information

Owner Name	Address	Phone	Fax	Email
Cathy L Schulte	1522 9th Ave Greeley, CO 80631-4611			
Dennis L Schulte	1522 9th Ave Greeley, CO 80631-4611			
2 Surface Owner(s)				

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

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Best Management Practices

No	BMP/COA Type	Description
1	Community Outreach and Notification	Operator consulted with the Briggsdale Fire Protection District and the Weld County Office of Emergency Management (OEM) regarding the proposed facility and emergency response for this location. The site-specific Emergency Action Plan and Tactical Response Plan was submitted as part of the 1041 WOGLA Application and will be approved by Briggsdale Fire and the OEM.

2	General Housekeeping	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 when the trash bin is full.
3	Storm Water/Erosion Control	Implement and maintain BMPs to control stormwater runoff in a manner that minimizes erosion, transport of sediment offsite, and site degradation. Co-locate gathering lines to mitigate any erosion problems that arise due to the construction of any pipeline(s). A sediment trap will be constructed to capture any sediment prior to leaving the location. The sediment trap has been sized in accordance with good engineering practices. A temporary diversion, consisting of a cut swale and compacted earthen berm, will be constructed along the pad edge and routed to the sediment trap to prevent offsite migration of sediment/contaminant into the nearby surface water features. Check dams will be constructed within the swale, as needed, to control flow.
4	Material Handling and Spill Prevention	Operator will install an engineered containment system around the tank battery. The containment system is constructed of a perimeter of metal walls that are post driven into the ground around a flexible geotextile base. All components are then sprayed with a polyurea liner technology. This liner technology maintains impermeability and is puncture resistance under exposure to UV rays, weather extremes, and chemicals commonly encountered in oil and natural gas production, and provides seamless protection. The liner is then topped with pea gravel. Secondary containment will be installed around separators and treaters consisting of metal berm walls. The separators and treaters will be set on top of compacted road base.
5	Material Handling and Spill Prevention	All flowlines are designed/constructed/tested to ASME B31.4 and API 1104 standards. Only materials with Material Test Reports (MTRs) provided by the pipeline supplier are used in the construction of the flowlines. Audible, Visual, and Olfactory (AVO) inspections of the facility are conducted daily by the Operator. Any valve or fitting that is found to be ineffective is either repaired immediately or well shut-in procedures are implemented. Documented Audible, Visual, and Olfactory (AVO) inspections and optical gas imaging surveys are conducted monthly by a third-party specialist. The location will utilize a SCADA (remote monitoring) system to monitor facility pressures and flows. Sensors are placed on multiple points throughout the facility and are designed to measure the system for irregularities that would indicate a leak in the system or change in production of oil, water, or gas. The SCADA system is designed with alarms that are triggered by irregularities and will activate automatic shut-in of the well and facility. If a leak is discovered or suspected, the well will be shut in and the line will be hydrotested. If a leak is determined, the well remains shut in while the leak is located and repaired. Not until the line has passed hydrotesting, will the well be brought back online.
6	Construction	Operator acknowledges and will comply with the Colorado Oil & Gas Conservation Commission Policy on the Use of Modular Large Volume Tanks in Colorado dated June 13, 2014
7	Emissions mitigation	Operator has contracted with a third party to bring a gas sales lines to the location to send salable quality gas immediately down the sales line. In the event that a sales line connection is not available upon the completion of flowback, operator will follow the policy per the Notice to Operators "Rule 912 Venting or Flaring Produced Natural Gas". All salable quality gas shall be directed to the sales line as soon as practicable or shut in and conserved in accordance with Rule 805.b.(3)B.v.
8	Interim Reclamation	Operator shall be responsible for segregating the topsoil, backfilling, re-compacting any backfill, reseeding, and re-contouring the surface of any disturbed area so as not to interfere with Owner's operations and shall reclaim such area to be returned to preexisting conditions as best as possible with control of all noxious weeds.

Total: 8 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
2369265	OBJECTIVE CRITERIA REVIEW MEMO
2478722	LOCATION DRAWING
2478723	SURFACE AGREEMENT/SURETY
2478724	CORRESPONDENCE
401669129	FORM 2A SUBMITTED
401669811	MULTI-WELL PLAN
401669812	ACCESS ROAD MAP
401669816	LOCATION PICTURES
401669818	NRCS MAP UNIT DESC
401669820	NRCS MAP UNIT DESC

Total Attach: 10 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Final Review	final review task completed	07/10/2020
OGLA	<p>Requested information from the Operator for a discrepancy on a distance to the property line from the nearest production equipment and to verify the distance from the nearest well to the property line. The nearest production facility equipment (water tank) to the east property line is 329 ft, and the distance from the AC-1 well to the east property line is 531 ft. Revise the information in the Cultural Setbacks tab.</p> <p>Operator states that the location of the plugged and abandoned Heinze 1 well was field verified as shown on the Location Drawing, not where the COGCC GIS Map shows it. The aerial photograph also shows the property line is not along the private road north of the Location, but north of that road.</p>	07/09/2020
Permit	Permit review complete.	06/26/2020
OGLA	The Objective Criteria Review Memo (Doc#2369265) is attached to this Form 2A. Following additional analysis arising out of the Objective Criteria, the Director determined that this application meets the standard for the protection of public health, safety, welfare, the environment, and wildlife resources set by SB19-181.	06/16/2020
OGLA	Operator provided an update on local government permit disposition for 1041WOGLA20-0024 approved on 06/11/2020.	06/16/2020
OGLA	<p>Operator provided a revised Location Drawing - attached.</p> <p>Operator concurred with changing the distance to the nearest constructed water well distance to 3,850 feet.</p> <p>Operator added comment to Location Drawing stating that the water well shown 712' NE from the reference point was not constructed.</p>	06/11/2020
Permit	<p>Request for additional information or concurrence:</p> <ol style="list-style-type: none"> 1) Was the existence of water well (DWR #79291-F) verified in the field? 2) Location Drawing shows water well (DWR #79291-F) 284 feet northeast of the location edge of disturbance (712' NE from reference point). Confirm the measurements were from publicly available data sources and not field verified. 3) Revise Location Drawing to add a note that the water well was/was not verified in the field. 4) Does Operator want to field verify whether this water well does not exist if not done previously? 5) If water well #79291-F is field verified to exist or assumed to exist does Operator concur with changing the sensitive area response on the Water Resources tab? 6) Provide a revised statement for the Water Resources tab comment box stating sensitive area determination basis, and also provide both permit numbers for the water well (original/replacement) used to establish groundwater depth. 	06/05/2020

OGLA	Requested Operator concur with changes to Stormwater/Erosion Control BMP and to the MLVT BMP. Operator concurred with revising Stormwater/Erosion control BMP to state that check dams in swale would be installed as needed, removed MLVT policy language, and retained language that Operator would acknowledge and comply with the MLVT Policy dated June 13, 2014.	05/08/2020
OGLA	<p>Form 2A was updated with Operator provided information or concurrence.</p> <p>1. Yes, the gas gathering plant has been constructed and is operational. Please remove this comment.</p> <p>2. Operator provided the following responses:</p> <ul style="list-style-type: none"> • Change the Municipality box from blank to 'N/A'? Yes. • Change the local government with jurisdiction to 'County?' Yes. • Change the drop down box for jurisdiction regulating siting of this oil and gas location to 'Yes?' Yes. • Mark the check box that an application has been submitted to the local government with jurisdiction? 1041WOGLA20-0024 was submitted to Weld County on 4/19/2020. • Change the local government siting permit type to "WOGLA?" Yes. • Add an explanation of the local permitting process: (e.g. "1041 WOGLA20-0024 is IN PROCESS.") 1041WOGLA20-0024 is in process; submitted to Weld County on 4/19/2020. <p>3. Facilities tab question: The facilities list 14 Oil Tanks and 7 Water Tanks which meets Objective Criteria #8.</p> <ul style="list-style-type: none"> • What are the sizes/capacities of these tanks? 500 bbl tanks • Are there plans for an oil take away pipeline? No, there are no current plans for an oil take away pipeline. Operator has and will continue to explore the viability of future opportunities to connect to an oil take away pipeline. • Will the number of tanks be reduced once an oil pipeline is available? If pipeline takeaway becomes a viable option, Operator will re-evaluate the design of the production facility. <p>4. Provide updated dates:</p> <ul style="list-style-type: none"> • Date planned to commence construction: 2/1/2021 • Estimated date that interim reclamation will begin: 7/1/2021 <p>5. Surface and Minerals tab:</p> <ul style="list-style-type: none"> • Provide the Date of Rule 306 surface owner consultation: Please use the 5/31/2018 date <p>6. Cultural Setback tab:</p> <ul style="list-style-type: none"> • School Facility, School Property Line, Child Care Center Distance listed as "1999": Yes, please change to 5280' • Nearest Production Facility to School, School Property Line, Child Care Center listed as "1999": Change to 5280' <p>7. Water Resources tab:</p> <ul style="list-style-type: none"> • Was a State data resource reviewed, other than the COGCC COGIS map, for State Floodplain data? Yes. • Water Resources tab states the distance to the nearest water well as 94 ft; however, the Location Map states 284 ft East as measured from the edge of disturbance. Reconcile this discrepancy. 94' is incorrect. 284' is the correct distance. <p>8. BMP/COA tab:</p> <ul style="list-style-type: none"> • BMP #1 General Housekeeping indicates Site will have unused equipment, trash and junk removed immediately. Provide a condition (such as "when the trash bin is full") or timing (e.g. within 48 hours, within a week after end of drilling and completion) when this will be done. Please change BMP to include: Site will have unused equipment, trash and junk removed immediately when the trash bin is full. • Revise Stormwater/Erosion Control BMP #2 to provide site specific control measures/BMPs used prior to construction through interim reclamation. Please change Stormwater/Erosion Control BMP #2 to add the following Stormwater/Erosion Control BMP: A sediment trap will be constructed to capture any sediment prior to leaving the location. The sediment trap has been sized in accordance with good engineering practices. A temporary diversion, consisting of a cut swale and compacted earthen berm, will be constructed along the pad edge and routed to the sediment trap to prevent offsite migration of sediment/contaminant into the nearby surface water features. If necessary, check dams will be constructed within the swale. • BMP #3 Material Handling/Spill Prevention: Yes, move references to CDPHE-APCD Regulation 7, CDPHE-WQCD SWMP, and SPCC plan to the comment box under the Submit tab. • BMP #3 Material Handling/Spill Prevention. Please change BMP from New Flowline Rules to BMP to install an engineered containment system around the tank battery. • Add BMP Material Handling/Spill Prevention: Flowlines tested per industry standards, AVO inspections conducted daily, Documented AVO/optical gas imaging suveys performed monthly by a 3rd party, Location will use a SCADA system to monitor facility pressures and 	04/23/2020

	<p>flows and include sensors to detect leaks/system irregularities to trigger alarms and automatic facility shut down. If a leak is detected the well will remain shut-in until it is found and repaired and has passed hydrotesting.</p> <ul style="list-style-type: none"> • BMP #4 MLVT –Revise MLVT BMP narrative since there are two MLVT. Yes, please change BMP with updated BMP also includes reference to COGCC Policy June 13, 2014. 	
OGLA	<p>Request for Additional Information or Operator concurrence:</p> <ol style="list-style-type: none"> 1. Submit tab comment states Operator did not anticipate developing this oil and gas location until a third party constructed a gas gathering system and a gas processing plant during the first quarter of 2019. <ul style="list-style-type: none"> - Confirm the gas gathering system and processing plant (Outrigger) have been constructed. - Modify or remove comment from Submit tab comment box. 2. Request Operator concur with the following changes on the Location Identification tab under Local Government Information. <ul style="list-style-type: none"> • Changing the Municipality box from blank to 'N/A' • Changing the local government with jurisdiction to 'County' • Changing the drop down box for jurisdiction regulating siting of this oil and gas location to 'Yes' • Marking the check box that an application has been submitted to the local government with jurisdiction. • Changing the local government siting permit type to "WOGLA" • Add an explanation of the local permitting process: (e.g. "1041 WOGLA20-0024 is IN PROCESS.") • Provide the filing date: 3. Facilities tab question: The facilities list 14 Oil Tanks and 7 Water Tanks which meets Objective Criteria #8. <ul style="list-style-type: none"> • What are the sizes/capacities of these tanks? • Are there plans for an oil take away pipeline? • Will the number of tanks be reduced once an oil pipeline is available? 4. Provide updated planned construction and estimate of interim reclamation dates: 5. Surface and Minerals tab: Provide the Date of Rule 306 surface owner consultation. 6. Cultural Setback tab: <ul style="list-style-type: none"> • Provide distances to the school property line, School Facility, and Child Care Center rather than '1999' feet or concur with changing to '5280.' 7. Water Resources tab: <ul style="list-style-type: none"> • Was a State data resource reviewed, other than the COGCC COGIS map, for State Floodplain data? • Water Resources tab states the distance to the nearest water well as 94 ft; however, the Location Map states 284 ft East as measured from the edge of disturbance. Reconcile this discrepancy. (Measure from edge of disturbance.) 8. BMP/COA tab: <ul style="list-style-type: none"> • BMP #1 General Housekeeping indicates Site will have unused equipment, trash and junk removed immediately. Provide a condition (such as "when the trash bin is full") or timing (e.g. within 48 hours, within a week after end of drilling and completion) when this will be done. • Revise Stormwater/Erosion Control BMP #2 to provide site specific control measures/BMPs used prior to construction through interim reclamation. • BMP #3 Material Handling/Spill Prevention: Request Operator concur with moving references to CDPHE-APCD Regulation 7, CDPHE-WQCD SWMP, and SPCC plan to the Submit tab comment box. • BMP #3 Material Handling/Spill Prevention addresses New Flowline Rule 1100 Series. Request a BMP for the use of engineered or synthetic liners and steel ring containment for production facilities due to number of tanks on Location. • BMP #4 MLVT –Revise MLVT BMP narrative since there are two MLVT. • Provide a BMP for Community Outreach/Notification with the Fire Protection District and Weld County Office of Emergency Management (OEM) due to the number of tanks planned for this Location. • If an oil take away pipeline will be installed by a third party contractor, provide a BMP that states that an oil take away pipeline will reduce the number of oil tanks on location. • Request Operator concur with replacing the existing BMPs with these updated BMPs. Material Handling & Spill Prevention - Replace BMP #3 with Updated BMP for flowline testing. • All flowlines are designed/constructed/tested to industry standards. Only materials with Material Test Reports (MTRs) provided by the pipeline supplier are used in flowline construction. 	04/23/2020

	<ul style="list-style-type: none"> Operator conducts daily Audible, Visual, and Olfactory (AVO) inspections of the facility. Any valve or fitting found to be ineffective is either repaired immediately or well shut-in procedures are implemented. Documented AVO inspections and optical gas imaging surveys will be conducted monthly by a third-party specialist. Operator will utilize a remote monitoring SCADA system to monitor facility pressures and flows. Sensors placed on multiple points throughout the facility measure the system for irregularities that would indicate a leak or change in production of oil, water, or gas. The SCADA system includes alarms triggered by irregularities that activate automatic shut-in of the well and facility. If a leak is discovered/suspected, the well will be shut in and the line will be hydrotested. If a leak is determined, the well remains shut in while the leak is located and repaired. Once the line passes hydrotesting, then the well will be brought back online. 	
OGLA	COGCC Staff conducted its technical review of this Form 2A Oil and Gas Location Assessment within the context of SB19-181 and the required Objective Criteria. The Form 2A met Objective Criteria #8.	04/23/2020
OGLA	IN PROCESS - Operator revised the ground elevation, revised the size of the Disturbance Area, & provided the correct Surface Use Agreement and a revised Location Drawing. OGLA review completed and task passed.	07/17/2018
OGLA	ON HOLD - Requested operator revise the ground elevation, clarify and/or revise the size of the Disturbance Area, & provide the correct Surface Use Agreement. Due by 8/11/18	07/11/2018
Permit	Passed Completeness.	06/15/2018

Total: 14 comment(s)