

FORM
2A

Rev
08/19

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203
Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

401968859

(RESUBMITTED)

Date Received:

01/29/2020

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:

Expiration Date:

☒ This location assessment is included as part of a permit application.

CONSULTATION

- ☐ This location is included in a Comprehensive Drilling Plan. CDP # _____
- ☐ This location is in a sensitive wildlife habitat area.
- ☐ This location is in a wildlife restricted surface occupancy area.
- ☐ This location includes a Rule 306.d.(1)A.ii. variance request.

Operator

Operator Number: 10727

Name: MATHIS OIL AND GAS LLC

Address: 6300 E HAMPDEN AVE

City: DENVER State: CO Zip: 80222

Contact Information

Name: Aiden Durham

Phone: (720) 475-6429

Fax: ()

email: info@mathisoil.com

FINANCIAL ASSURANCE

- ☒ Plugging and Abandonment Bond Surety ID (Rule 706): 20190038 ☐ Gas Facility Surety ID (Rule 711): _____
- ☐ Waste Management Surety ID (Rule 704): _____

LOCATION IDENTIFICATION

Name: Mathis

Number: 6HZ Pad

County: WELD

Quarter: SENE Section: 6 Township: 2N Range: 67W Meridian: 6 Ground Elevation: 4843

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: 2595 feet FNL from North or South section line

230 feet FEL from East or West section line

Latitude: 40.168191 Longitude: -104.924334

PDOP Reading: 1.9 Date of Measurement: 02/19/2019

Instrument Operator's Name: Monty Wallace

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: Weld County Oil and Gas Location Assessment

The local government siting permit was filed on: 05/16/2019

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

Additional explanation of local process:

WOGLA approved October 24, 2019.

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>12</u>	Oil Tanks*	<u>10</u>	Condensate Tanks*	<u> </u>	Water Tanks*	<u>2</u>	Buried Produced Water Vaults*	<u> </u>
Drilling Pits	<u> </u>	Production Pits*	<u> </u>	Special Purpose Pits	<u> </u>	Multi-Well Pits*	<u> </u>	Modular Large Volume Tanks	<u> </u>
Pump Jacks	<u>12</u>	Separators*	<u>2</u>	Injection Pumps*	<u> </u>	Cavity Pumps*	<u>2</u>	Gas Compressors*	<u> </u>
Gas or Diesel Motors*	<u> </u>	Electric Motors	<u>12</u>	Electric Generators*	<u> </u>	Fuel Tanks*	<u> </u>	LACT Unit*	<u>2</u>
Dehydrator Units*	<u> </u>	Vapor Recovery Unit*	<u>1</u>	VOC Combustor*	<u> </u>	Flare*	<u>1</u>	Pigging Station*	<u> </u>

OTHER FACILITIES*

Other Facility Type	Number
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Flare knockout drum	<u>1</u>
Heater treater	<u>1</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:

Flowlines from each wellhead to the production manifold will be NPS 3, designed to API/ASME B31.3. These flowlines will be externally coated and buried from the wellhead area to the production manifold. They are expected to carry three-phase fluids from the wells. Oil leaving the facility will be by truck until the field is proven to LACT connect it. When LACT connected, the export pipeline is expected to be NPS 6 and will be built to API/ASME B31.4, and all feeder lines to the LACT will be designed to API/ASME B31.3. The line is expected to be a single phase hydrocarbon liquid line. Gas from the production operations enters the local existing DCP gathering system. The line from the production separators to the DCP system will be designed to API/ASME B31.3. The line from the LACT will be provided by DCP. This line is expected to be a single phase gas line. All piping on-lease will be designed to API/ASME B31.3 and will range in size from NPS 1 up to NPS 12.

CONSTRUCTION

Date planned to commence construction: 03/02/2020 Size of disturbed area during construction in acres: 6.15
Estimated date that interim reclamation will begin: 09/02/2020 Size of location after interim reclamation in acres: 4.95
Estimated post-construction ground elevation: 4842

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: Denmore, LLC

Phone: _____

Address: 1942 Broadway

Fax: _____

Address: Suite 314-C

Email: _____

City: Boulder State: CO Zip: 80302

Surface Owner: ☒ Fee ☐ State ☐ Federal ☐ Indian

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

☐ is committed to an oil and Gas Lease

☐ has signed the Oil and Gas Lease

☐ is the applicant

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

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

The right to construct this Oil and Gas Location is granted by: Surface Use Agreement

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

Date of Rule 306 surface owner consultation 03/05/2019

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): _____

Unimproved dry
land. Previous
Poultry Farm.

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): Non-crop, unimproved dry land

Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

RE-SUBMITTED

CULTURAL DISTANCE INFORMATION

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

	From WELL	From PRODUCTION FACILITY
Building:	524 Feet	272 Feet
Building Unit:	524 Feet	272 Feet
High Occupancy Building Unit:	3814 Feet	3606 Feet
Designated Outside Activity Area:	5280 Feet	5280 Feet
Public Road:	211 Feet	233 Feet
Above Ground Utility:	200 Feet	219 Feet
Railroad:	5280 Feet	5280 Feet
Property Line:	230 Feet	251 Feet
School Facility::	5184 Feet	4979 Feet
School Property Line:	4578 Feet	4378 Feet
Child Care Center:	3814 Feet	3606 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: 03/05/2019

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 parcel owner of the proposed Mathis 6HZ Pad owns the only buildings and building units within 1000' of the proposed oil and gas location. Moving the location further to the north would place the location less than 1000' from the adjacent building unit. Moving the pad location to the south and west would not be technically feasible for drilling the northern laterals. The pad is located as east as possible constrained by the public roadway.

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 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: Vona loamy sand, 3 to 5 percent slopes

NRCS Map Unit Name: Vona loamy sand, 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: Prairie sandreed, sandy bluestem, switchgrass, little bluestem, needle and thread, sand sage brush, sideoats grama, western wheatgrass, blue grama, sand drop seed, sand sagebrush.

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): Weeds are present in the pre-existing disturbed areas.

WATER RESOURCES

Is this a sensitive area: ☐ No ☒ Yes

Distance to nearest

downgradient surface water feature: 778 Feet

water well: 1055 Feet

Estimated depth to ground water at Oil and Gas Location 23 Feet

Basis for depth to groundwater and sensitive area determination:

Water well permits were reviewed from within approximately a 1/2 mile radius of the location. There were 13 well permits issued. The average depth to water was 23 feet from recorded static water levels. The nearest surface water is Lupton Bottom Ditch located 778 feet east to northeast.

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 zone: No

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 _____

Operator Proposed Wildlife BMPs

No BMP

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	<p>The Mathis 6HZC #1 is the reference well used for the location identification. The distances for the cultural setbacks were provided from the nearest proposed well and production facility on the pad. Please see the location drawing for the surveyor-measured cultural distances.</p> <p>The parcel owner of the proposed Mathis 6HZ Pad owns the only building or building unit within 1000' of the proposed oil and gas location. The owner has waived the 305.a, 305.c, 306.a, and 306.e notifications and meetings in the attached 305.a.(3) Waiver. We have included this waiver in lieu of a 30 day notification letter. There is an additional letter from the surface owner stating he is the owner of the building units within 1000', and the LGD was notified and approved (pre-application certification).</p> <p>Mathis is planning to obtain demolition permits to take down all the abandoned poultry barns on the subject parcel. The abandoned barns will be demolished after the Form 2A is approved, and before the first well is drilled.</p> <p>The poultry operation is not in use, no barns are in use, and the surface will not be put back into use as a poultry operation, but will remain as non-crop unimproved dry land.</p>
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I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: _____ Date: 01/29/2020 Email: jdesmond@vanococonsulting.com

Print Name: Jack Desmond Title: Project Manager

Based on the information provided herein, this Oil and Gas Location Assessment complies with COGCC Rules, applicable orders, and SB 19-181 and is hereby approved.

COGCC Approved: _____ Director of COGCC Date: _____

Conditions Of Approval

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

COA Type

Description

Best Management Practices

No	BMP/COA Type	Description
1	Planning	604c.(2).E. Multiwell Pads: This 2A application is for a 12-well pad. This was the best location considering the surface and lease locations. The surface owner provided input into choosing this location. The two building units within 1,000 feet are owned by the surface owner, who is aware of potential O&G development impacts per the surface use agreement.
2	Planning	Rule 604.c.(2).W. Site Specific Measures: Lights will be turned downward and away from the nearest building units outside the surface owner's parcel.
3	Planning	Rule 604c.(2).B. Operator will use a closed loop system for drilling and fluid management. No pits will be dug.
4	Planning	Production facilities, which are observable from any public highway shall be painted with uniform, noncontrasting, non-reflective color tones (similar to the Munsell Soil Color Coding System), and with colors matched to but slightly darker than the surrounding landscape.
5	Traffic control	Rule 604c.(2).D. Traffic Plan: A traffic plan has been coordinated with Weld County through the approved WOGLA and Access Permit.

6	General Housekeeping	Mud control: when conditions exist that roads are excessively muddy, additional fill material will be added in order to fill in potholes, ruts, and puddles and reduce the amount of material that is transported from the wells roads and location to off-site areas.
7	General Housekeeping	Rule 604c.(2).P. Removal of Surface Trash: A commercial size trash bin for removing debris will be located on site. This bin will be for use by all parties affiliated with the operation.
8	General Housekeeping	General housekeeping will consist of neat and orderly storage of materials and fluids. Wastes will be temporarily stored in sealed containers and collected at the end of each work day and disposed of at offsite, suitable facilities. If spills occur cleanup will be implemented immediately to minimize any commingling of waste materials with storm water runoff. All waste will be disposed of in a timely manner that will allow for the location to remain free of excess debris.
9	Storm Water/Erosion Control	<p>1002.f Stormwater Management</p> <p>(1) Mathis will comply with BMP requirements to obtain and maintain a CDPHE stormwater permit. Upon termination of the stormwater permit, Mathis will implement a Post-Construction Stormwater Program.</p> <p>(2) Mathis will implement and maintain Best Management Practices (BMPs) at the subject location to control stormwater runoff in a manner that minimizes erosion, transport of sediment offsite, and site degradation. BMPs shall be maintained until the facility is abandoned and final reclamation is achieved pursuant to Rule 1004. Site specific BMPs include:</p> <p>An engineered site retention basin, extending in a north-south direction near the eastern boundary of the well pad. The majority of the surface run-off will be directed to the retention basin.</p> <p>A site perimeter ditch with appropriately spaced check dams. The ditch will capture run-off not directed to the retention basin. The site perimeter ditch will also direct surface water run-on. The ditch will lead to the northeast corner of the site, then extend east along the lease access road, leading to WCR 15. Filtrex logs (or equivalent) will be placed perpendicular to the ditch prior to surface water leaving location. Sediment traps are not anticipated to be needed along the perimeter ditch due to the flat topography.</p> <p>A 24" site perimeter berm will be constructed along the fill sides (mainly north and east). The perimeter berm will be constructed with the cut soil from the leveling of the well pad. The perimeter slopes, including berms, will be drill-seeded (NRCS seed mix) and mulched to stabilize the soil.</p>
10	Storm Water/Erosion Control	<p>1002f.(2) Stormwater BMPs</p> <p>A. Completion materials such as sand and chemicals will be covered or contained, in order to not migrate from the location in the event of precipitation and subsequent stormwater runoff.</p> <p>C. Erosion controls will be in place to minimize erosion from unpaved areas, including operational well pads, and road surfaces (see sections above). There are no planned culverts or stream crossings. Soil from cut slopes will be either stockpiled, used as fill, or used for perimeter berms. See sections above for planned erosional controls.</p> <p>D. There will be daily self-inspections during active pad construction drilling, and completions. During non-active times, the inspections will follow the stormwater management schedule.</p> <p>E. Mathis will have spill kit(s) available to clean up minor spills. Larger containers will be covered by a Spill Prevention, Control, and Countermeasure plan, which will be referenced in the Post-Construction Stormwater Management Program specified in Rule 1002.f.(3). Mathis will have nearby emergency response contractors to response to spill events.</p> <p>F. Vehicle tracking controls will be the road and pad road-base.</p>
11	Material Handling and Spill Prevention	Operator will ensure 150 percent secondary containment for any volume of fluids contained at the well site during drilling and completion. Operator will implement best management practices to contain any unintentional release. A permeant fencing plan will be reviewed by the surface owner and applicant

12	Material Handling and Spill Prevention	A geosynthetic liner will be laid under the tanks on this location and a metal containment will be constructed.
13	Material Handling and Spill Prevention	Drip pans will be used during fueling of equipment to contain spills and leaks. Visual inspections of pipe and connections will be performed frequently to detect leaks which will be immediately corrected, repaired and reported to COGCC as required. Spill prevention Control Countermeasure (SPCC) will be in place to address any possible spill associated with oil and gas operations.
14	Material Handling and Spill Prevention	604c.(2).N. Control of Fire Hazards: Mathis and its contractors will employ best management practices during the drilling and production of its wells and facilities and will comply with appropriate COGCC rules concerning safety and fire. Company will ensure that any material that might be deemed a fire hazard will remain no less than 25 feet from the wellhead(s), tanks and separator(s). Additionally, in accordance with rule 606A.d, flammable liquids will 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. A County approved Emergency Response Plan has been created for this site.
15	Material Handling and Spill Prevention	Oil-based drilling fluids (OBDF) will be separated from the cuttings at the surface. At the end of its use on a particular well, the liquid oil-based mud will be reused for additional drilling operations or it will be returned to then vendor who originally supplied the mud. Transportation will occur on a daily basis as required to facilitate on ongoing drilling operations. Oil-based drill cuttings (OBDC) will be separated from liquid mud onsite and the cuttings will be temporarily stored onsite in steel bins. Accumulated cuttings will be transported for permanent disposal to a licensed solid waste disposal facility. The actual solid waste disposal facility that will be used will depend on geographic proximity to the well being drilled. Transportation will occur on a daily basis as required to facilitate ongoing drilling operations.
16	Material Handling and Spill Prevention	In accordance with COGCC Rule 1002.f.(2)A. & B., Mathis shall provide a designated storage area for dry bulk chemicals and miscellaneous fluids. The dry chemicals in the storage area shall be adequately protected to prevent contact with precipitation, shall be elevated above storm- or standing water, and shall provide sufficient containment for liquid chemical storage to prevent release of spilled fluids from impacting soil, surface water or groundwater and will prevent the co-mingling of spilled fluids or chemicals with other E&P Waste.
17	Dust control	Rule 805.c. To prevent dust from becoming a nuisance to the public, water trucks will be utilized to spread water across any dust problem areas.
18	Dust control	Dust: Mathis will employ practices for control of fugitive dust caused by operations include but not limited to the use of speed restrictions, regular road maintenance, restriction of construction activity during high-wind days, and silica dust controls when handling sand used in hydraulic fracturing operations. When necessary, Mathis coordinates dust mitigation with the county on gravel roads, places road base where allowed by surface owner around tanks and wellheads to minimize dust, and will water the roads and locations when dry. In addition, automation is used on all new wells to minimize truck traffic.
19	Construction	Rule 604c.(2).M. Fencing Requirements: The completed wellsite will be surrounded with a fence and gate. Mathis personnel will monitor the wellsites regularly upon completion of the wells. Authorized representatives and/or Mathis personnel shall be on-site during drilling and completion operations.
20	Construction	Rule 604c.(2).R. Tank Specifications: Condensate storage tanks will be designed, constructed and maintained in accordance with National Fire Protection Association (NFPA) Code 30 (2008 version). Mathis will maintain written records to verify proper design, construction and maintenance. All records will be available for inspection by the Director.
21	Construction	Rule 604c.(2).S. Access Roads: Mathis will utilize the lease access road off of WCR 15 for drilling operations and maintenance equipment. The approximate 153' x 33' access road, and the well pad surface not used for equipment, will be covered with a 6" layer of road base for protection of the soil surface and to minimize tracking of mud off-site. Regular road maintenance will be performed. Dust mitigation will be used as-needed. Mathis will be responsible for all maintenance on the access road.

22	Noise mitigation	Drilling and Completion: Based on the receptor locations of 1,100 to 1,200 distance, projected noise levels are not anticipated to exceed the Light Industrial Zone standard of 65 decibels (db) at the receptor locations. Noise mitigation is not immediately planned for the Mathis 6HZ Pad. If noise mitigation is deemed necessary after drilling and completion activities begin, methods of noise mitigation shall include but not be limited to hay bales, sound walls, or customized semi-trailers. In order to minimize sound levels during drilling operations at nearby residences, rig generators will be located as far as possible from the residence by rig orientation. Noise mitigation features will be installed and removed to have minimal landscape damage.
23	Noise mitigation	Production facilities: It is not anticipated that noise mitigation will be necessary at the proposed tank battery location. After construction is completed, equipment installed and production begins, noise levels will be assessed to determine if mitigation measures will be required to be compliant with Rule 802.
24	Emissions mitigation	604c.(2).C. Green Completion: Test separators and associated flow lines and sand traps shall be installed on-site to accommodate Green completions techniques pursuant to COGCC Rules. The wells are expected to be connected to gathering sales lines within 60-180 days of completion. Prior to a sales line connection, flowback gas shall be thermally oxidized in 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 flow-back within a 10-mile radius, will be flanged to route gas to other or permanent oxidizing equipment and shall be provided with the equipment needed to maintain combustion where noncombustible gases are present.
25	Emissions mitigation	When commercial quantities of salable quality gas are achieved at each well, the gas shall be immediately directed to a sales line or shut in and conserved. If a sales line is unavailable or other conditions prevent placing the gas into a sales line, Mathis shall not produce the wells without an approved variance per Rule 805.b.(3)C.
26	Emissions mitigation	604c.(2) F. Leak Detection Plan: Mathis personnel will conduct weekly Audio, Visual and Olfactory (AVO) inspections of well heads, separation equipment, tanks, valves, fittings and thief hatches to identify potential leaks and correct promptly. Once per month personnel will conduct additional inspections of facilities with a FLIR camera to ensure no leaks from well heads, separation equipment, tanks valves, fittings, thief hatches, and other potential sources of fugitive emissions.
27	Odor mitigation	Hydrocarbon odors from production facilities are minimized and eliminated by keeping produced fluid hydrocarbons and natural gas contained within pipes, separators, tanks, and combustors. All tanks will be sealed with thief hatches and gaskets. Tank vapors are captured with properly sized piping and combustors.
28	Drilling/Completion Operations	604c.(2).Q. Guy Line Anchors: Guy line anchors will not be used. Base Beams will be used to stabilize the rig and removed after drilling.
29	Interim Reclamation	1002.b&c: Soil removal and segregation b. (2) Soil removal and segregation on non-crop-land. Mathis will separate and store the topsoil horizon or the top six (6) inches, whichever is deeper, and segregate the stockpile locations to facilitate subsequent reclamation. When separating the soil horizons, Mathis shall segregate the horizon based upon noted changes in physical characteristics such as organic content, color, texture, density, or consistency. c. Protection of soils. All stockpiled soils shall be protected from degradation due to contamination, compaction and, to the extent practicable, from wind and water erosion during drilling and production operations. Best management practices to prevent weed establishment and to maintain soil microbial activity shall be implemented. Stockpiled soils will be drill seeded (NRCS seed mix) and mulched to minimize erosion. A silt fence will be placed at the base of the soil stock pile. Perimeter ditches with spaced check dams will direct run-off to the site retention basin and/or to the facility perimeter ditch leading off-site.

Total: 29 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401968859	FORM 2A RESUBMITTED
402241548	FORM 2A REJECTED
402251328	MULTI-WELL PLAN
402251337	ACCESS ROAD MAP
402251348	LOCATION DRAWING
402251352	NRCS MAP UNIT DESC
402251354	NRCS MAP UNIT DESC
402251559	MINERAL LEASE MAP
402251561	SURFACE AGRMT/SURETY
402273896	REFERENCE AREA PICTURES
402273897	REFERENCE AREA MAP
402276636	LOCATION PICTURES
402296967	FACILITY LAYOUT DRAWING
402307393	WASTE MANAGEMENT PLAN
402307469	RULE 305.a.(3) EVIDENCE OF COMPLIANCE
402313067	RULE 305A CERTIFICATION OF COMPLIANCE
402313069	HYDROLOGY MAP

Total Attach: 17 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
OGLA	<p>This Form is being returned to Draft for the following, numbers are from previous comment:</p> <p>2. The tab for Construction, Drilling & Waste "Drilling Waste Management Plan" states that wastes will be transported offsite to Commercial facilities; however the attached Waste Management Plan state that petroleum contaminated soils and tank bottoms will be disposed of at either a COGCC approved land application site or a commercial solid waste disposal facility. There is no mention or discussion of any potential land application sites in the Form 2A.</p> <p>8. Water Resources. The Hydrology Map and the distance to surface water on the Water Resources tab agree, but the description comment has a different distance. The background on the Hydrology Map is largely illegible and will need to be updated.</p> <p>11. The 305.e. Evidence of Compliance attachment lists a different facility name and quarter section than is on the form and other attachments.</p>	02/03/2020

OGLA	<p>Technical Review:</p> <ol style="list-style-type: none"> 1. Location Identification tab on Form 2A says "Firestone" for Municipality; however, Location appears to be in unincorporated Weld County. Operator needs to confirm Location information. 2. The Form 2A Tab for Construction, Drilling & Waste "Drilling Waste Management Plan" states that wastes will be transported offsite to Commercial facilities; however, the attached Waste Management Plan states that there will be land application of water-based bentonitic drilling fluids. Operator needs to confirm that all E&P Waste will be disposed offsite at commercial facilities. Alternatively, operator needs to get written approval from landowner for use of CMC polymer in land spreading of water-based bentonitic mud. Operator needs site specific background soil samples collected for inorganic parameters - samples from treated stockpile are not indicative of background concentrations or levels. 3. Land use does not appear to be "Dry Land Crop Land" under the Land Use Tab of Form 2A. The past land use appears to have been for turkey barns. Operator needs to revise landuse for livestock or other, such as Poultry Farm. Operator needs to confirm future land use. 4. Operator needs to provide timing of when the barns will be demolished and which barns will be demolished. 5. Discrepancies in distances listed in Form 2A and on Location Drawing for public road and utilities. Confirm nearest BU Dist. Landowner waived COGCC notification/consultation under Rule 305.a = nearest BU (202 ft to 347 ft) Exception Zone. Rule 305.a.(3) for LUMA locations is a waiver and requires a certification letter to the Director for pre-application certifications stating that the only Building Unit within 1,000 feet is the surface owner. Operator needs to attach waiver and revise Location Drawing attachment. 6. Location drawing needs to have a "box" or outline showing the Production Area. Operator needs to revise the Location Drawing to show the Production Area. 7. Discrepancies in Form 2A and Technical Review COGIS on Distances to School Property line. Child Care facilities appear to be closer to the Location than 3,500 feet to the west and south. School appears to be greater than 5,280 feet from the Location. Operator needs to verify and revise these distances in the Form 2A and on the Location Drawing. 8. Sensitive Area - groundwater - nearest well Boda Arlo DTW = 27 ft TD = 72 ft; MH in area TD = 20 ft. Need BMP for GW. Nearest surface water < 1,000 ft : Lupton Bottoms Ditch - East/NE 914 ft A hydrology map was not attached. Loamy sand. Operator needs to attach a Hydrology Map for the Location. Discrepancies in distances listed in Form 2A and on Location Drawing for public road and utilities. Confirm nearest BU Dist. Landowner waived COGCC notification/consultation under Rule 305.a = nearest BU (202 ft to 347 ft) Exception Zone. Discrepancies in Form 2A and Technical Review COGIS on Distances to School Property line. 9. Operator needs better water data and an explanation that the depth to groundwater in the nearest water well is not necessarily the depth to shallow ground water. Operator needs to provide BMPs for OBM taking into consideration shallow ground water, and requirements for leak detection for fluids and vapors, and containment for spills. 10. Operator needs to provide BMPs. Most of the BMPs, such as "fencing" are not BMPs. Operator needs to provide complete and specific BMPs on how the operator intends to address issues during drilling, completion, and operations. 	11/05/2019
Permit	Passed completeness.	03/19/2019
Permit	Referred to OGLA supervisor for buffer zone review.	03/18/2019
Permit	•Returned to Draft at Operator's Request.	03/15/2019

Total: 5 comment(s)

Public Comments

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

RE-SUBMITTED