

FORM
2A

Rev
02/20

State of Colorado Oil and Gas Conservation Commission

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



Document Number:

402443658

Date Received:

08/11/2020

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

Location ID:

478972

Expiration Date:

12/29/2023

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: 47120
 Name: KERR MCGEE OIL & GAS ONSHORE LP
 Address: P O BOX 173779
 City: DENVER State: CO Zip: 80217-3779

Contact Information

Name: Mhamed Samet
 Phone: (307) 6605553
 Fax: ()
 email: Sam_Samet@oxy.com

FINANCIAL ASSURANCE

- Plugging and Abandonment Bond Surety ID (Rule 706): 20010124 Gas Facility Surety ID (Rule 711): _____
- Waste Management Surety ID (Rule 704): _____

LOCATION IDENTIFICATION

Name: GADDIS Number: 3-36HZ PAD
 County: WELD
 Quarter: NENW Section: 36 Township: 4N Range: 68W Meridian: 6 Ground Elevation: 5046
 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: 302 feet FNL from North or South section line
1906 feet FWL from East or West section line
 Latitude: 40.276572 Longitude: -104.953885
 GPS Quality Value: 1.4 Type of GPS Quality Value: PDOP Date of Measurement: 03/12/2020
 Instrument Operator's Name: TRAVIS HOLLAND

LOCAL GOVERNMENT INFORMATION

County: WELD Municipality: N/A

CONSTRUCTION

Date planned to commence construction: 01/01/2021 Size of disturbed area during construction in acres: 10.73
Estimated date that interim reclamation will begin: 06/01/2021 Size of location after interim reclamation in acres: 2.68
Estimated post-construction ground elevation: 5045

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:

Please see attached Waste Management plan.

Beneficial reuse or land application plan submitted? Yes

Reuse Facility ID: _____ or Document Number: _____

Centralized E&P Waste Management Facility ID, if applicable: 149021

SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: Gaddis Family Registered Phone: _____

Address: 8995 Prairie Knoll Drive Fax: _____

Address: _____ Email: JGaddis@lyonsgaddis.com

City: Longmont State: CO Zip: 80503

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 02/11/2020

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: | 755 Feet | 782 Feet |
| Building Unit: | 2842 Feet | 2620 Feet |
| High Occupancy Building Unit: | 5280 Feet | 5280 Feet |
| Designated Outside Activity Area: | 5280 Feet | 5280 Feet |
| Public Road: | 304 Feet | 88 Feet |
| Above Ground Utility: | 2980 Feet | 2460 Feet |
| Railroad: | 3683 Feet | 3452 Feet |
| Property Line: | 77 Feet | 86 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 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: 42—Nunn clay loam, 1 to 3 percent slopes

NRCS Map Unit Name: _____

NRCS Map Unit Name: _____

PLANT COMMUNITY:

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

Are noxious weeds present: Yes No

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

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: 10 Feet

water well: 4913 Feet

Estimated depth to ground water at Oil and Gas Location 20 Feet

Basis for depth to groundwater and sensitive area determination:

Ditch: 10' ESE Elev: 5035'
Ditch: 70' SE Elev: 5037'
Farmers Extension Canal: 108' S Elev: 5035'
Pond: 297' S Elev: 5037'
Ditch: 842' S Elev: 5027'
Loc Elev: 5046'
Nearest water wells:
4913' NW, Permit 6648-R, depth 35', Static Water Level 14', Elev 5007' (nearest well with record of being drilled)
Sensitive Area Determination: SENSITIVE AREA, downgradient surface water feature within 1,000'
Location is NOT in floodplain according to Weld County and FEMA

(SWL calc: (5046 - 5007) + 14 = 53)

Is the location in a riparian area: No Yes

Was an Army Corps of Engineers Section 404 permit filed No Yes If yes attach permit.

Is the location within a Rule 317B Surface Water Supply Area buffer No zone:

If the location is within a Rule 317B Surface Water Supply Area buffer have all public water supply systems within 15 miles been notified: _____

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

Federal (FEMA)

State

County

Local

Other _____

GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 318A

WILDLIFE

This location is included in a Wildlife Mitigation Plan

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

DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

Rule 604.a.(1)A. Exception Zone (within 500' of a Building Unit) and is in an Urban Mitigation Area

Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of Rule 604.a.)

Rule 604.b.(1)B. Exception Location (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit construction after Location approval)

Rule 604.b.(2) Exception Location (SUA or site-specific development plan executed on or before August 1, 2013)

Rule 604.b.(3) Exception Location (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific development plan)

RULE 502.b VARIANCE REQUEST

Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number _____

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

OPERATOR COMMENTS AND SUBMITTAL

Comments

Comment 1: No ditches will be impacted by construction of this oil and gas location. No permitting is required with USACE.

Comment 2: Temporary above ground polyethylene water pipelines (diameter 10" - 12" with a 60 BPM capacity) will deliver water to location operations from larger trunk lines.

Comment 3: 7 flow lines will flow to the production facility location. During production, flow direction in the flow lines is from the wellhead to the production facility. The size of flow lines is typically 2". Flow lines will be constructed from steel pipe, buried, and will equal the distance between the well heads and the production facility, approximately 150'.

Comment 4: 7 compressed air supply lines will also be installed from the well head to the production facility. During operation flow direction in the supply lines will be from the production facility to the well head. The size of the supply lines is typically 1". Supply lines will be constructed from steel pipe, buried, and will equal the distance between the well heads and the production facility, approximately 150'.

Comment 5: Gas lift lines are also occasionally installed (one per well) from the well head to the production facility. During operation flow direction in the gas lift lines will be from the production facility to the well head. The size of the gas lift lines is typically 2". Gas lift lines will be constructed from steel pipe, buried, and will equal the distance between the well heads and the tank battery, approximately 150'.

Comment 6: CUSTODY TRANSFER: Gas custody transfer occurs at the custody transfer meter located on the proposed production facility location. Oil custody transfer occurs at the LACT Unit located on the proposed production facility location.

Comment 7: Construction and interim reclamation start dates listed are preliminary and subject to change based off future operational schedules.

Comment 8: Well distance to property line closer than 150'. SUA contains waiver to setback provisions defined in Rule 603. Surface agreement amendment was signed by surface owner to include both parcels in the development.

Comment 9: Two 500 barrel skid-mounted frac tanks will be temporarily placed onsite for use of the pre-spud rig only. One tank will store water and the other will store water-based mud. A temporary ECD may be utilized during drilling. 11 temporary 500 barrel skid-mounted frac tanks will be utilized during flowback and initially for produced water. It is estimated the 4 temporary ECDs and the temporary tanks will be on location for 9 - 12 months and will be removed as water production declines. A generator may be placed on location if needed and would be in place until electric power is available. Purge flares may be on location for up to 60 days. A temporary 250-gallon propane tank will be used on to provide fuel gas during facility equipment start up.

DISTANCES TO PERMANENT EDGES OF EQUIPMENT:

BUILDING:782 FT
BUILDING UNIT:2719 FT
HIGH OCCUPANCY BUILDING UNIT:5280 FT
DESIGNATED OUTSIDE ACTIVITY AREA:5280 FT
PUBLIC ROAD:160 FT
ABOVE GROUND UTILITY:2576 FT
RAILROAD:3477 FT
PROPERTY LINE:158 FT
SCHOOL FACILITY:5280 FT
SCHOOL PROPERTY LINE:5280 FT
CHILD CARE CENTER:5280 FT

DISTANCES TO TEMPORARY EDGES OF EQUIPMENT:

BUILDING:868 FT
BUILDING UNIT:2620 FT
HIGH OCCUPANCY BUILDING UNIT:5280 FT
DESIGNATED OUTSIDE ACTIVITY AREA:5280 FT
PUBLIC ROAD:88 FT
ABOVE GROUND UTILITY:2460 FT
RAILROAD:3452 FT
PROPERTY LINE:86 FT
SCHOOL FACILITY:5280 FT
SCHOOL PROPERTY LINE:5280 FT
CHILD CARE CENTER:5280 FT

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

Signed: _____ Date: 08/11/2020 Email: DJRegulatory@anadarko.com

Print Name: Mhamed Samet 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: 12/30/2020

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.

| <u>COA Type</u> | <u>Description</u> |
|------------------------|---|
| Final Reclamation | This Form 2A has been approved prior to approval of the Wellbore Spacing Units (WSU). If the final agency action is denial of the WSU then the operator shall abandon this Oil and Gas Location by submitting a Form 4 Sundry within 45 days of the agency denial; however, if Location construction has commenced, then the Location will be immediately subject to final reclamation. |
| Construction | The approved Form 2A for this Location shall be posted on Location during construction, drilling, and completion activities. |
| Interim Reclamation | Operator shall minimize post-completion disturbance per Rule 1003. Operator shall minimize total area disturbed for this Oil and Gas Location disturbance size, consistent with Rule 1002.d. and 1002.e |

Best Management Practices

| <u>No</u> | <u>BMP/COA Type</u> | <u>Description</u> |
|------------------|-------------------------------------|--|
| 1 | Planning | Access Roads: KMG will build an access road off of Weld County Road 40. The road will be properly constructed and maintained to accommodate for local emergency vehicle access. |
| 2 | Planning | KMG holds Surface Impact Planning (SIP) meetings for each planned location. These meetings are attended by KMG internal teams. This is a multi-disciplinary team including construction, operations, facilities, EHS, stakeholder relations, regulatory, surface land and mitigation. The team reviews potential impacts to surrounding residents, identifies and plan for necessary mitigations, and identifies BMPs that should be included in the pad development moving forward. The team reviews noise, odor, lights, traffic, haul routes, rig orientation and visual mitigation and any input we have received from surrounding communities either from response line calls or community meetings, relative to our operations. The purpose of the meeting is to proactively identify potential concerns, exhaust possible options and provide best in class solutions in order to have compatible operations. |
| 3 | Community Outreach and Notification | Courtesy Notifications will be sent to all property owners within one mile of the proposed location prior to drilling operations and again prior to completions operations, providing contact information for the Occidental Colorado Response Line and online resources. |
| 4 | Traffic control | KMG currently plans to use the water-on-demand system on this location which is a network of over 180 miles of underground pipeline that stretches the length of the 20-mile by 30-mile field to source and transport water to completions crews. This system eliminates more than 2,000 truck trips per day, also reducing associated concerns of traffic, noise, emissions and dust. |
| 5 | Traffic control | Prior to the commencement of operations, the operator will obtain an access permit from Weld County and implement traffic control plans. |
| 6 | General Housekeeping | Loadlines: All loadlines shall be bullplugged or capped. |

| | | |
|----|--|--|
| 7 | General Housekeeping | 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. Upon completion of operations, the commercial trash bin will be removed from the location and disposed of in an appropriate manner. |
| 8 | General Housekeeping | Lighting: Site lighting shall be shielded and directed downward and inward toward operations to avoid glare on public roads and nearby Building Units. |
| 9 | Storm Water/Erosion Control | Kerr-McGee will create tertiary containment around the well pad and facility by constructing a berm/ditch around the oil & gas location with sediment traps to further protect adjacent water features. A culvert is proposed at the access road. The natural grade at this proposed location slopes from west to east. Cut from the West side of the pad will be used to fill the eastern side of the pad and level the grade. Once graded the well pad will be sloped 0.5% to the east and west from approximately the center of the well pad. The ditch/berm will be engineered to contain and divert runoff. The ditch/berm will direct flow from west to east and north to south through the sediment traps. |
| 10 | Storm Water/Erosion Control | Site-Specific Measures: During active construction, drilling, and completions, with personnel on location, daily inspections will occur. During non-active, but while under construction, site inspections will occur every 14 days or after major rain events. When construction is completed and the location is on production, site inspections will occur every 28 days with additional inspections after major rain events. When construction is completed and the location is on production, site inspections will occur every 28 days with additional inspections after major rain events. During construction, stormwater features will be checked more frequently (up to daily, depending on the intensity of construction activity). These construction checks will not be formally documented, since they occur as part of construction oversight, and minor issues will be corrected with no further documentation. If and when larger issues are noted in these construction checks, the associated corrective actions would be documented. |
| 11 | Material Handling and Spill Prevention | Berm Construction: A geosynthetic liner will be laid under the long-term tanks on this location and a metal containment will be constructed. Secondary containment devices will be constructed around crude oil, condensate, and produced water storage tanks and shall enclose an area sufficient to contain and provide secondary containment for 150% of the largest single tank. Secondary containment devices shall be inspected at the same time as stormwater inspections, with personnel on location, daily inspections will occur. During non-active, but while under construction, site inspections will occur every 14 days. When construction is completed and the Location is on production, site inspections will occur every 28 days. |
| 12 | Material Handling and Spill Prevention | Temporary produced water storage tanks shall be designed, constructed, and maintained in accordance with the following portions of the National Fire Protection Association (NFPA) Code 30 (2008 version): 1) Tanks are built to engineering standards using noncombustible materials, with relief device sizing based on API 2000 standards. 2) Tanks are inspected and maintained while in use. 3) The only pipes within the containment are related to the temporary tanks (i.e. no external piping is collocated within the containment), and firefighting equipment is likewise not stored within the containment area. |
| 13 | Material Handling and Spill Prevention | Leak Detection Plan: Automation technology will be utilized at this facility. This technology includes the use of fluid level monitoring for the tanks and produced water sumps, high-level shut offs, and electronic sensors to monitor the interstitial space of double-walled produced water sumps. All automation is monitored by Kerr-McGee's Integrated Operations Center (IOC), which is manned 24 hours per day, 7 days per |
| 14 | Material Handling and Spill Prevention | Berm Construction: The temporary produced water storage tanks will be staged on a geosynthetic liner and surrounded by an earthen berm. The berms shall enclose an area sufficient to provide secondary containment for 150% of the volume of the largest single tank and shall be sufficiently impervious to contain spilled or released material. Berms and the liner shall be inspected at the same time as stormwater inspections, with personnel on location, daily inspections will occur. During non-active, but while under construction, site inspections will occur every 14 days. When construction is completed and the location is on production, site inspections will occur every 28 days. |
| 15 | Material Handling and Spill Prevention | Pit Level Indicators: All storage tanks used for active drilling operations (used in lieu of pits) contain pit level monitors with Electronic Drilling Recorders (EDR). KMG uses EDRs with pit level monitor(s) and alarm(s) for production rigs. Basic level gauges are used on tanks utilized for the surface rig. |

| | | |
|----|--|--|
| 16 | Material Handling and Spill Prevention | Berm Construction - Separators: Around all separators, secondary containment in the form of a 22 inches steel berm will be constructed and buried 13 inches with the remaining 9 inches exposed above grade. The seams and penetrations of the berm are sealed. This shall be inspected at the same time as stormwater inspections, with personnel on location, daily inspections will occur. During non-active, but while under construction, site inspections will occur every 14 days. When construction is completed and the Location is on production, site inspections will occur every 28 days. |
| 17 | Material Handling and Spill Prevention | All piping is pressure tested and inspected for leaks prior beginning flowback. During the entirety of flowback piping is visually inspected for fluid leaks throughout the 24 hour operation. Once the wells have been turned over to production (oil, gas and water through the facility) produced water will be diverted to the temporary tanks west of the production facility until the tanks are no longer needed. The pipelines connecting to the temporary 500bbl tanks will be buried. Prior to produced water being transported through the pipe pressure tests will confirm pipe integrity. |
| 18 | Dust control | Dust: Water will be placed on unpaved roads to mitigate dust. |
| 19 | Construction | Fencing Requirements: The completed wellsites will be surrounded with a fence and gate with adequate lock to restrict access to authorized personnel only. KMG personnel will monitor the wellsites regularly upon completion of the wells. Authorized representatives and/or KMG personnel shall be on-site during drilling and completion operations. |
| 20 | Noise mitigation | KMG is not proposing any noise mitigation for this location due to the absence of proximity to building units (+ 2,500 ft). However, a sound survey will be conducted on the rig type utilized to anticipate any additional effective noise mitigation once a drilling rig is determined. Ambient monitoring will be conducted prior to drilling operation on this pad. Post-construction, an operational sound study may be performed when the site is fully operational to ensure compliance with the appropriate COGCC Noise level requirements. |
| 21 | Emissions mitigation | Temporary ECD(s) will be utilized to mitigate releases of emissions from temporary produced water storage tanks for the duration which the tanks are on location and being used. |
| 22 | Emissions mitigation | Kerr-McGee will conduct air monitoring consisting of continuous VOC analyzers, carbon sorbent tubes and Summa cannisters at the subject location. Monitoring will be conducted during pre-production operations. Data will be provided to COGCC within 48-hours of request. |
| 23 | Odor mitigation | 805b Odor Mitigation. Additional BMPs for this location are: 1) the storage of excess drilling fluid (e.g., fluid not being used in the active mud system) in closed, upright tanks. 2) Drill cutting will be run through a centrifugal dryer to minimize odor during temporary time on location and during transport to disposal. 3) Odor neutralizer will be used in the active mud system for management of odors within 24 hours of receipt of a stakeholder grievance. 4) Drill cuttings will not remain in storage at the oil and gas location for more than a 24 hours period. Disposal will occur before the end of the 24 hours period. |
| 24 | Drilling/Completion Operations | Test separators and associated flow lines, sand traps and emission control systems shall be installed on-site to accommodate green completions techniques. 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, KMG shall not produce the wells without an approved variance per Rule 805.b. (3)C.Date |
| 25 | Final Reclamation | Well Site Cleared: The wellsite will be cleared of all non-essential equipment within ninety (90) days after all wells associated with the pad have been plugged and abandoned. |

Total: 25 comment(s)

Attachment List

| <u>Att Doc Num</u> | <u>Name</u> |
|--------------------|--------------------------------|
| 2316676 | OBJECTIVE CRITERIA REVIEW MEMO |
| 2316677 | CORRESPONDENCE |
| 402443658 | FORM 2A SUBMITTED |
| 402446388 | NRCS MAP UNIT DESC |
| 402446401 | LOCATION DRAWING |
| 402446405 | HYDROLOGY MAP |
| 402446418 | ACCESS ROAD MAP |
| 402446421 | WELL LOCATION PLAT |
| 402446427 | MULTI-WELL PLAN |
| 402446444 | LOCATION PICTURES |
| 402449062 | FACILITY LAYOUT DRAWING |
| 402463570 | WASTE MANAGEMENT PLAN |
| 402463572 | SURFACE AGRMT/SURETY |
| 402463574 | SURFACE AGRMT/SURETY |

Total Attach: 14 Files

General Comments

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u> |
|-------------------|---|---------------------|
| OGLA | The Objective Criteria Review Memo (Doc# 2316676) 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 SB 19-181. | 12/04/2020 |
| OGLA | IN PROCESS – received requested information from Operator on 10/28/2020; COGCC review will resume and be conducted within 60 days (by 12/27/2020). 1. Property line is not indicated on Weld County Assessor's website; same surface owner owns both parcels. SUA was updated to indicate both parcels. 2. The extra ECD will be used only if needed during drilling. 3. Operator agreed the depth to water was closer to 20 feet vs. 53 feet. Geothermal well to the south approx 3600 feet with depth of 300 feet. Water well listed on 2A is water well used to determine depth of water. Depth to water calculated at 11 feet based on elevation. Depth of water well is 35 feet, use 20 feet and operator has BMPs for protection of potential shallow groundwater. 4. Noise mitigation BMP has been updated to include a sound survey for the rig and ambient sound monitoring. 5. Operator provided updated information for the local government permit and interactions with the proximate local governments. - Updated BMPs for internal meetings and air monitoring. - Attached correspondence doc no 2316677. | 11/10/2020 |
| OGLA | COGCC staff conducted its technical review of this Form 2A Oil and Gas Location Assessment within the context of SB 19-181 and the required Objective Criteria. This Form 2A met Objective Criteria # 3 within 1,500 feet of municipality and #5.c. sensitive environment for water resources. | 09/11/2020 |

| | | |
|------|--|------------|
| OGLA | <p>ON HOLD: This application has been reviewed by COGCC staff and cannot be approved based on the information submitted; therefore, the COGCC is placing this form ON HOLD until additional information is received from the applicant. In compliance with § 24-65.1-108(1), C.R.S., the COGCC is providing this written request for all additional information necessary for the COGCC to respond to this application. The applicant may provide all requested additional information to COGCC via email. Upon receipt of all requested information, the COGCC will have 60 days in which to approve, deny, or request all additional information necessary to complete the regulatory review. If the applicant no longer requires this application be approved, the applicant may request to withdraw the application.</p> <p>In addition to all standard required information and attachments, the COGCC hereby confirms the following information is necessary for review:</p> <ol style="list-style-type: none"> 1. Under the cultural distances, the nearest well to the property line is listed at 77 feet but based off the Weld County Assessor's site, the property line is almost 300 feet north of the nearest well. 2. The Facility list on the 2A has 5 temporary ECDs and on the Facility layout drawing there are only 4 temporary ECDs. 3. The depth to ground water is listed at 53 feet below ground surface. Based on the surface water bodies to the south, there is a potential for groundwater to be shallower. Provide more information. 4. Provide information on noise mitigation. 5. Provide information on WOGLA submittal. | 09/11/2020 |
| LGD | <p>This proposed oil and gas location is situated in the Agricultural Zone District of unincorporated Weld County. A 1041 Weld Oil and Gas Location Assessment (WOGLA) is required prior to constructing any improvements related to oil and gas exploration and production.</p> <p>The operator HAS notified the Weld County LGD of their intent to apply for a WOGLA, but HAS NOT submitted an application as of this comment. 1041WOGLA20-0067 has been assigned to this location, and any files associated with this location are viewable online through Weld County's E-Permit Center.</p> <p>A building permit is required for the production facilities (tank battery, separators, pump jacks, compressors, generators, etc.) from the Department of Planning Services. Access points from County roads require an Access Permit from the Department of Public Works, which includes any necessary traffic control plans and Improvement Agreements. The use of County right-of-way requires a permit from the Department of Public Works.</p> <p>Jason Maxey Director, Oil Gas Energy Department and LGD 970-400-3580</p> | 08/26/2020 |
| OGLA | This Form has passed completeness. | 08/14/2020 |

Total: 6 comment(s)