

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:

402149030

Date Received:

08/23/2019

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:

472992

Expiration Date:

03/08/2023

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: 10720
 Name: KODA EXPLORATION LLC
 Address: 11799 WEST 18TH AVENUE
 City: LAKEWOOD State: CO Zip: 80215

Contact Information

Name: Anders Elgerd
 Phone: (303) 915-2555
 Fax: ()
 email: elgerd@comcast.net

FINANCIAL ASSURANCE

- Plugging and Abandonment Bond Surety ID (Rule 706): 20180182 Gas Facility Surety ID (Rule 711): _____
- Waste Management Surety ID (Rule 704): _____

LOCATION IDENTIFICATION

Name: Roaring Fork Number: 14-28 Pad
 County: LINCOLN
 Quarter: SESW Section: 28 Township: 16S Range: 54W Meridian: 6 Ground Elevation: 4653
 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: 693 feet FSL from North or South section line
 1774 feet FWL from East or West section line
 Latitude: 38.627090 Longitude: -103.460720
 GPS Quality Value: 2.3 Type of GPS Quality Value: PDOP Date of Measurement: 07/15/2019
 Instrument Operator's Name: Elijah Frane

LOCAL GOVERNMENT INFORMATION

County: LINCOLN Municipality: N/A

CONSTRUCTION

Date planned to commence construction: 04/01/2020 Size of disturbed area during construction in acres: 5.74
Estimated date that interim reclamation will begin: 04/25/2020 Size of location after interim reclamation in acres: 2.50
Estimated post-construction ground elevation: 4653

DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: No

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? No

DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: ONSITE Drilling Fluids Disposal Method: Evaporation

Cutting Disposal: ONSITE Cuttings Disposal Method: Other

Other Disposal Description:

Dewater and backfill.

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: Craig Budge Phone: _____

Address: 14990 County Road 29 Fax: _____

Address: _____ Email: _____

City: Karval State: CO Zip: 80823

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: oil and gas lease

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

Date of Rule 306 surface owner consultation 08/03/2018

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:	5280 Feet	5280 Feet
Building Unit:	5280 Feet	5280 Feet
High Occupancy Building Unit:	5280 Feet	5280 Feet
Designated Outside Activity Area:	5280 Feet	5280 Feet
Public Road:	5280 Feet	5280 Feet
Above Ground Utility:	5280 Feet	5280 Feet
Railroad:	5280 Feet	5280 Feet
Property Line:	693 Feet	458 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: 130 - Fort loam, 3 to 6 percent slopes

NRCS Map Unit Name: 165 - Olney sandy 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: 08/19/2019

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: 160 Feet

water well: 495 Feet

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

Basis for depth to groundwater and sensitive area determination:

The unpermitted windmill located 495' from the pad was used for distance to closest water well. Water well permit number 37997, approximately 3433' southeast from the pad, was used as the basis for depth to groundwater. Adobe Creek, approximately 160 feet to the east, and the drainage to Adobe Creek, approximately 200 feet to the north, are the basis for sensitive area determination for proximity to surface water.

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 During COGCC technical review, soil classification, topography, and local geomorphology were examined to confirm that the location is not within a floodplain.

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 In the event this Wildcat/Exploratory well is productive there will be a temporary flare skid, a temporary separator/treater to separate the oil, water, gas during the testing/flow back phase, (2) temporary oil tanks and (2) temporary water tanks. These temporary tanks on the well pad will be removed when the permanent tanks are installed on the same pad. However, there may be a window where both the temporary production equipment and the permanent facilities are on site at the same time while the permanent facilities are being built.

The 2 pits will be constructed adjacent to one another and used during drilling operations. One pit will be used for fresh water storage and the other will be a drill pit used to capture drill cuttings.

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

Signed: _____ Date: 08/23/2019 Email: elgerd@comcast.net

Print Name: Anders Elgerd Title: CEO

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: 3/9/2020

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>
Material Handling and Spill Prevention	In addition to collecting and analyzing representative samples of the drilling pit contents in accordance with Rule 905, operator shall collect a sample from the soils at the base of the drilling pit prior to pit closure to ensure the soils meet the concentration levels in COGCC Rules Table 910-1 prior to backfilling the pit. The sample results shall be provided to COGCC within 14 days of request.
Construction	If groundwater is encountered during construction of the drilling pits, the operator shall line the drilling pits, make use of tanks, or utilize a closed-loop system.
Storm Water/Erosion Control	Operator shall use engineered controls that prevent off-site sediment migration and damage from runoff, ensuring protection of surrounding lands, Adobe Creek approximately 160 feet to the east, and the drainage to Adobe Creek approximately 200 feet to the north
Drilling/Completion Operations	Operator shall notify COGCC via a Form 42 Field Operations Notice for Completion of Permit Condition to allow for COGCC inspection at least 48 hours prior to backfilling and closing the drilling pit in accordance with Rule 1003. Operator shall collect representative samples of the pit contents to ensure that the cuttings/soils meet the concentration levels in COGCC Rules Table 910-1 prior to backfilling the pit. The sample results shall be provided to COGCC within 14 days of request.
Material Handling and Spill Prevention	All vessels and liquid containers shall be placed in impervious-lined secondary containment or containers.

Best Management Practices

No	BMP/COA Type	Description
1	General Housekeeping	Housekeeping will consist of neat and orderly storage of materials and fluids. Wastes will be temporarily stored in sealed containers and regularly collected and disposed of at offsite, suitable facilities. If spills occur, prompt cleanup will be required to minimize any commingling of waste materials with stormwater runoff. Routine maintenance will be limited to fueling and lubrication of equipment. Drip pans will be used during routine fueling and maintenance to contain spills or leaks. Any waste product from maintenance will be containerized and transported offsite for disposal or recycling. Cleanup will consist of patrolling the roadways, access areas, and other work areas to pick up trash, scrap debris, other discarded materials, and any contaminated soil. These materials will be disposed of properly.
2	Wildlife	Operator shall protect wildlife, migratory birds and domestic animals (e.g., livestock) from reserve pit (drilling pit) access by installing fencing and netting appropriate for wildlife exclusion within 3 days of the end of drilling operations.
3	Storm Water/Erosion Control	Due to the proximity of a nearby surface water feature, Operator will employ effective stormwater BMPs to prevent offsite migration of sediment and erosion. Stormwater controls will be installed around the cross-gradient and down-gradient perimeters of the location to prevent offsite migration of sediment into the surface water feature. Once the well pad has been constructed, a variety of BMP's will be utilized, based on site specific conditions. BMP's to be utilized may include, but are not limited to earthen berms, erosion control blankets, straw bale barrier, straw wattles, check dams, culvert and culvert inlet/outlet protection, silt fence, surface roughening and surface ripping. BMPs will be inspected at least every 14 days during the construction period and after precipitation events capable of causing erosion. Maintenance will be conducted as required and new BMPs will be installed if existing BMPs prove ineffective.
4	Material Handling and Spill Prevention	If Operator completes well after drilling it, temporary tanks, separators, and other temporary facilities necessary to test productivity will be installed. Temporary facilities will be replaced with permanent facilities as soon as possible, but shall not be in service for more than 60 calendar days after well completion activities. Temporary facilities will be cleaned, decommissioned and removed from the location within 30 calendar days after being taken out of service. Temporary facilities will not be installed if the well is abandoned during drilling operations (D&A).
5	Material Handling and Spill Prevention	Due to the proximity of a nearby surface water feature, Operator will employ various BMPs to ensure that wellsite materials do not migrate offsite or into the subsurface. Operator will construct the permanent production facilities within lined secondary containment consisting of steel ring berms tied into an engineered synthetic liner to prevent the migration of potential contaminants into the underlying soils and groundwater in the event of a spill. Temporary production facilities will be installed on temporary containment pads with fold-up walls and/or liners draped over dirt berm side-walls around all tanks and treaters/separators. While temporary production facilities and permanent production facilities are in use, Operator will conduct daily inspections of production equipment and tank levels to ensure there are no leaks or spills and respond immediately in the event of a spill. COGCC and other agency spill reporting requirements will be followed.
6	Construction	Operator intends to construct an unlined earthen reserve pit (drilling pit). If shallow groundwater is encountered during construction of the pit, Operator will notify COGCC that a liner will be installed or will halt construction of the pit and will notify COGCC that a closed-loop mud system will be used instead of the unlined earthen reserve pit.

Total: 6 comment(s)

Attachment Check List

Att Doc Num	Name
2479227	OBJECTIVE CRITERIA REVIEW MEMO
2479233	CORRESPONDENCE
402149030	FORM 2A SUBMITTED
402149149	HYDROLOGY MAP
402149156	ACCESS ROAD MAP
402149159	OIL & GAS LEASE
402149162	LOCATION DRAWING
402149169	REFERENCE AREA MAP
402149175	REFERENCE AREA PICTURES
402149182	OTHER
402149204	LOCATION PICTURES
402150419	NRCS MAP UNIT DESC
402150420	NRCS MAP UNIT DESC
402151066	OTHER
402154149	OTHER

Total Attach: 15 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Final Review	Final Review complete.	03/09/2020
OGLA	Requested and received concurrence to remove federal from floodplain determination. COGCC comment added to other box with operator concurrence. Correspondence updated.	03/09/2020
OGLA	Requested and received revision to Wildlife BMP.	03/06/2020
OGLA	The Objective Criteria Review Memo (Doc# 2479227) 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.	03/05/2020
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 # 5.c.	03/05/2020
OGLA	Requested and received drill pit description comment from operator.	03/04/2020
OGLA	Per operator request, updated well and facility distances to property line.	02/28/2020
OGLA	Requested from operator updated sensitive area water comment to include unpermitted windmill well, confirmation to keep general housekeeping BMP, concurrence to remove out of date stormwater BMP. Received from operator updated sensitive area water comment, confirmation to keep housekeeping BMP, concurrence to remove old stormwater BMP.	02/20/2020
OGLA	Email correspondence consolidated and summarized into one email chain: Operatore provided updates and concurrence to change: sensitive area for water comment, updated construction and interim reclamation start dates, local government siting information update, updates to all BMPs. Further revisions needed to wildlife protection BMP - pit fencing. Prior emails discussed information requested on 11/15/2019.	02/19/2020
OGLA	Requested the following information from operator: revised sensitive area comment, updated construction start and interim reclamation start dates, updating local government siting information as the Lincoln County Oil and Gas Exploration Permit is not regarded as a local siting permit, confirmation on proposed BMPs, and updates on proposed Wildlife and secondary containment BMPs.	02/07/2020
OGLA	Requested additional information clarifying water resources, drilling pit plans, local governmental information, and for revisions/expansions/creation of BMPs.	11/15/2019
Permit	Passed Completeness.	08/27/2019

Total: 12 comment(s)