

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:

401802351

Date Received:

12/11/2018

Oil and Gas Location Assessment

☒ New Location ☐ Refile ☐ Amend Existing Location Location#: _____

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

Location ID:

474072

Expiration Date:

03/22/2023

☒ 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: 35080
Name: GRAND MESA OPERATING CO
Address: 1700 N. WATERFRONT PKWY BL 600
City: WICHITA State: KS Zip: 67206

Contact Information

Name: MICHAEL REILLY
Phone: (316) 265-3000
Fax: (316) 265-3455
email: MREILLY@GMOCKS.COM

FINANCIAL ASSURANCE

☒ Plugging and Abandonment Bond Surety ID (Rule 706): 20020080 ☐ Gas Facility Surety ID (Rule 711): _____

☐ Waste Management Surety ID (Rule 704): _____

LOCATION IDENTIFICATION

Name: GLYDE-NANA UNIT Number: 1-15
County: LINCOLN
QuarterQuarter: NWSW Section: 15 Township: 7S Range: 55W Meridian: 6 Ground Elevation: 5418

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: 2357 feet FSL from North or South section line
385 feet FWL from East or West section line

Latitude: 39.439000 Longitude: -103.546760

GPS Quality Value: 1.6 Type of GPS Quality Value: PDOP Date of Measurement: 09/27/2018

Instrument Operator's Name: ELIJAH FRANE-FRANE SURVEYING

LOCAL GOVERNMENT INFORMATION

County: LINCOLN 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: _____

The local government siting permit was filed on: _____

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

Additional explanation of local process:

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 #**

Well Site is served by Production Facilities 456568 _____

FACILITIES

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

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

OTHER FACILITIES*

Other Facility Type	Number
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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:

Our production facility already exists (Loc ID #456568). We will add 3-400bbl Oil Tanks, 1-400bbl Water tank, 1-Treater 4x20 and an ECD to the current Tank Battery Site and we will hook a flowline from this well to theses new tanks on this existing production facility pad if this well is a producer. We will run one 3" poly pipe-pressurized 0-40# PSI and buried at least 4' below the ground surface. These new tanks will be used for the production of the Glyde-Nana Unit #1-15 well.

CONSTRUCTION

Date planned to commence construction: 11/01/2020 Size of disturbed area during construction in acres: 4.99
Estimated date that interim reclamation will begin: 05/01/2021 Size of location after interim reclamation in acres: 0.75
Estimated post-construction ground elevation: 5471

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: OFFSITE Drilling Fluids Disposal Method: UIC Disposal

Cutting Disposal: ONSITE Cuttings Disposal Method: Drilling pit

Other Disposal Description:

Waterbased Bentonitic fluids, except de minimus amts will be removed from the drilling pit and disposed of in accordance with the 900 series rules at Grand Mesa Operating Co - Class II UIC Disposal Buys Boat #14 - UIC #160003, SESW 24-5S-54W, Wash, Colo.

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: ROHRBAUGH INTERESTS LLLP

Phone: 1-719-763-2256

Address: C/O ED ROHRBAUGH

Fax: _____

Address: 29640 COUNTY RD 3U

Email: _____

City: GENOA State: CO Zip: 80818

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 10/08/2018

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	Feet
Building Unit:	5280 Feet	Feet
High Occupancy Building Unit:	5280 Feet	Feet
Designated Outside Activity Area:	5280 Feet	Feet
Public Road:	385 Feet	Feet
Above Ground Utility:	385 Feet	Feet
Railroad:	5280 Feet	Feet
Property Line:	385 Feet	Feet
School Facility::	5280 Feet	Feet
School Property Line:	5280 Feet	Feet
Child Care Center:	5280 Feet	Feet

INSTRUCTIONS:

- All measurements shall be provided from center of nearest Well or edge of nearest Production Facility to nearest of each cultural feature as described in Rule 303.b.(3)A.
- Enter 5280 for distance greater than 1 mile.
- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.
- Building Unit, High Occupancy Building Unit, Designated Outside Activity Area, School Facility, and Child Care Center – as defined in 100 Series Rules.
- For measurement purposes only, Production Facilities should only include those items with an asterisk(*) on the Facilities Tab.

SCHOOL SETBACK INFORMATION

Was Notice required under Rule 305.a.(4)? ☐ Yes ☒ No

DESIGNATED SETBACK LOCATION INFORMATION

Check all that apply. This location is within a:

- ☐ Buffer Zone
☐ Exception Zone
☐ Urban Mitigation Area

- Buffer Zone - as described in Rule 604.a.(2), within 1,000' of a Building Unit.
- Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit.
- Urban Mitigation Area - as defined in 100-Series Rules.
- Large UMA Facility – as defined in 100-Series Rules.

Pre-application Notifications (required if location is within 1,000 feet of a building unit):

Date of Rule 305.a.(1) Urban Mitigation Area Notification to Local Government: _____

Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: _____

FOR MULTI-WELL PADS AND PRODUCTION FACILITIES WITHIN DESIGNATED SETBACK LOCATIONS ONLY:

☐ Check this box if this Oil and Gas Location has or will have Production Facilities that serve multiple wells (on- or offsite) and the Production Facilities are proposed to be located less than 1,000 feet from a Building Unit. *(Pursuant to Rule 604.c.(2)E.i., the operator must evaluate alternative locations for the Production Facilities that are farther from the Building Unit, and determine whether those alternative locations were technically feasible and economically practicable for the same proposed development.)*

☐ By checking this box, I certify that no alternative placements for the Production Facilities, farther from the nearest Building Unit, were available based on the analysis conducted pursuant to Rule 604.c.(2)E.i.

In the space below, explain rationale for siting the multi-well Production Facility(ies) that supports your Rule 604.c.(2)E.i determination. Attach documentation that supports your determination to this Form 2A.

SOIL

List all soil map units that occur within the proposed location. attach the National Resource Conservation Service (NRCS) report showing the "Map Unit Description" report listing the soil typical vertical profile. This data is to be used when segregating topsoil.

The required information can be obtained from the NRCS web site at <http://soildatamart.nrcs.usda.org/> or from the COGCC web site GIS Online map page found at <http://colorado.gov/cogcc>. Instructions are provided within the COGCC web site help section.

NRCS Map Unit Name: Ascalon-Haxtun Complex - Symbol 109 - Wellsite

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: 81 Feet

water well: 3756 Feet

Estimated depth to ground water at Oil and Gas Location 10 Feet

Basis for depth to groundwater and sensitive area determination:

This well is located in a Sensitive area due to it being located in the Arikaree Designated Ground Water Mgmt area and the Northern High Plains Basin, being located within proximity to a surface water feature and having potential shallow groundwater. Wtr well Permit #7973 (stock).

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: No

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

☐ Federal (FEMA)

☐ State

☒ County

☐ Local

☐ Other

GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 609

WILDLIFE

☐ This location is included in a Wildlife Mitigation Plan

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

DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

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

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

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

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

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

RULE 502.b VARIANCE REQUEST

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

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

OPERATOR COMMENTS AND SUBMITTAL

Comments There is an apparent surface water area approx 81' Southeast and a dry creek bed falls approx 178' North of the wellpad. A windmill falls approx. 997' Northeast of wellhead. The only improvements that lie within the 500'-1000' buffer area of the wellsite is CR28.

BMP Plan
Grand Mesa Operating, Co.
1700 N Waterfront Pkwy, Bldg 600
Wichita, KS 67206
P - 316-265-3000 F - 316-265-3455

Certification of Discharge under CDPHE COR-030000
Storm water discharges associated with construction permit number (Not yet assigned)

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

Signed: _____ Date: 12/11/2018 Email: MREILLY@GMOCKS.COM

Print Name: MICHAEL REILLY Title: PRESIDENT

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: 3/23/2020

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.

COA Type**Description**

Material Handling and Spill Prevention	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	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.
Material Handling and Spill Prevention	Location lies within a Sensitive Area with potential shallow groundwater. In the event groundwater is encountered during the construction of the drilling pit, Operator shall line the pit or switch to a closed loop system.
Storm Water/Erosion Control	Location lies within a Sensitive Area within proximity to a surface water feature. Operator shall use engineering controls to minimize the potential for sediment/contaminant migration into the nearby waterway.

Best Management Practices

No	BMP/COA Type	Description
1	Planning	GMOC agrees to have a minimum buffer of 300 feet extending from the outermost limit of the riparian vegetation zone.
2	Planning	<p>Prior to construction, perimeter controls will be installed utilizing cutting from the clearing operations.</p> <p>Once the well pad has been constructed a variety of BMP's shall be utilized for the site specific conditions.</p> <p>BMP's to be utilized may include, but are not limited to:</p> <ul style="list-style-type: none"> -Dirt berms -Erosion control blankets -Straw bale barrier -Straw wattle -Check dams -Culvert/Culvert Protection -Silt Fence -Surface roughening/Surface rip
3	Wildlife	GMOC will place a fence around the drilling pit to keep animals out and will take down when drilling pit is able to be closed.

Total: 3 comment(s)

Attachment Check List

Att Doc Num	Name
901760	SURFACE AGRMT/OTHER
1010633	NRCS MAP UNIT DESC
2479230	SURFACE AGRMT/SURETY
2479231	LOCATION DRAWING
2479232	HYDROLOGY MAP
2479244	CORRESPONDENCE
2479245	OBJECTIVE CRITERIA REVIEW MEMO
401802351	FORM 2A SUBMITTED
401809021	ACCESS ROAD MAP
401809022	LOCATION PICTURES
401809026	REFERENCE AREA PICTURES
401809027	LOCATION PICTURES
401809028	REFERENCE AREA MAP
401809143	OTHER
401809242	UNIT CONFIGURATION MAP

Total Attach: 15 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
OGLA	This location will utilize a remote production facility at Location 456568 that is covered under another 2A. All additional tanks or production facilities needed for this well have been permitted at that Location.	03/23/2020
OGLA	The Objective Criteria Review Memo (Doc# 2479245) 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.	03/19/2020
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.	03/19/2020
OGLA	Received from operator: construction and interim start dates, pad size reduction, changing right to construct to SUA, cultural distances, local government information, drilling fluids disposal method, removal of unneeded attachment, BMP revisions, and a Wildlife Fencing BMP. Requested and received clarification on interim start date and Wildlife Fencing BMP.	03/06/2020
OGLA	Requested information from operator for: construction and interim start dates, pad size reduction, changing right to construct to SUA, cultural distances, local government information, drilling fluids disposal method, removal of unneeded attachment, BMP revisions, and a Wildlife Fencing BMP.	03/04/2020
Final Review	Objective Criteria Review is required for OGLA-181 task - status is still Active. Changed Final Review Task from Pass to Active.	02/25/2020
Environmental	IN PROCESS following resolution of 305.e.(2) issue, see hearings files, operator to supplement right to construct info with SUA.	04/29/2019
Permit	ON HOLD - Surface Owner has filed a request for hearing per Rule305.e.(2).	04/23/2019
Permit	Attached SUA/OTHER document, per operator request. Final Review Completed.	04/16/2019
OGLA	Changed the distance to the nearest surface water feature to 81 feet based on the distance reported on the Hydrology Map submitted by the Operator. Added surface and groundwater to the Basis Statement. Removed "Wages-Karval-Symbol 212" from the soils list as the tank battery is a separate and discrete Location. Removed the NRCS Map Unit Description. Uploaded the NRCS Map Unit Description for Map Unit 109. Floodplain determination is based on local consultation, soils review, topography and National Wetland Inventory review. Sensitive Area is based on the Location lying within the Arikaree Groundwater Management Area and Northern High Plains Designated Basin. Operator working with Surface Owner on the SUA. - Operator SUA still pending. Sending through Director Review. - 04/01/2019	03/05/2019
Permit	Passed completeness.	12/17/2018

Total: 11 comment(s)