

FORM
2A

Rev
04/18

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:

401644656

Date Received:

06/26/2018

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

Location ID:

457667

Expiration Date:

09/26/2021

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: MCLINTOCK Number: 1-9
 County: WASHINGTON
 Quarter: SWSW Section: 9 Township: 5S Range: 53W Meridian: 6 Ground Elevation: 5053

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: 231 feet FSL from North or South section line
1062 feet FWL from East or West section line

Latitude: 39.624220 Longitude: -103.326590

PDOP Reading: 2.3 Date of Measurement: 05/09/2018

Instrument Operator's Name: ELIJAH FRANE-FRANE SURVEYING INC.

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>1</u>	Oil Tanks*	<u>3</u>	Condensate Tanks*	<u> </u>	Water Tanks*	<u>1</u>	Buried Produced Water Vaults*	<u> </u>
Drilling Pits	<u>1</u>	Production Pits*	<u> </u>	Special Purpose Pits	<u> </u>	Multi-Well Pits*	<u> </u>	Modular Large Volume Tanks	<u> </u>
Pump Jacks	<u>1</u>	Separators*	<u>1</u>	Injection Pumps*	<u> </u>	Cavity Pumps*	<u> </u>	Gas Compressors*	<u> </u>
Gas or Diesel Motors*	<u>1</u>	Electric Motors	<u> </u>	Electric Generators*	<u> </u>	Fuel Tanks*	<u> </u>	LACT Unit*	<u> </u>
Dehydrator Units*	<u> </u>	Vapor Recovery Unit*	<u> </u>	VOC Combustor*	<u> </u>	Flare*	<u> </u>	Pigging Station*	<u> </u>

OTHER FACILITIES*

Other Facility Type

Number

<u>ECD</u>	<u>1</u>
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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:

If this well is successful - a flowline from the well to the tank battery will be installed. One 3" poly pipe- pressurized 0-40# PSI and buried at least 4' below the ground surface. The tank battery will be used solely for the McLintock 1-9 well and will be located approximately 100' FWL off of CR W and approximately 106' FSL. We would like to include our tank battery inclusively with this 2A for our location on this well and we will provide a production layout drawing and pictures if this well is a producer.

CONSTRUCTION

Date planned to commence construction: 09/25/2018 Size of disturbed area during construction in acres: 5.00
Estimated date that interim reclamation will begin: 12/25/2018 Size of location after interim reclamation in acres: 2.00
Estimated post-construction ground elevation: 5053

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: Commercial Disposal

Cutting Disposal: ONSITE Cuttings Disposal Method: Drilling pit

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: Furniture Row

Phone: 303-566-8000

Address: 5641 N. Broadway

Fax: _____

Address: _____

Email: josh.sonne@furniturerow.com

City: Denver State: CO Zip: 80216

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 06/22/2018

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:	3140 Feet	2853 Feet
Building Unit:	3300 Feet	2971 Feet
High Occupancy Building Unit:	5280 Feet	5280 Feet
Designated Outside Activity Area:	5280 Feet	5280 Feet
Public Road:	1062 Feet	100 Feet
Above Ground Utility:	1022 Feet	60 Feet
Railroad:	5280 Feet	5280 Feet
Property Line:	231 Feet	100 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, and Designated Outside Activity Area - as defined in 100-Series Rules.
- For measurement purposes only, Production Facilities should only include those items with an asterisk(*) on the Facilities Tab.

DESIGNATED SETBACK LOCATION INFORMATION

Check all that apply. This location is within a:

- Buffer Zone
- Exception Zone
- Urban Mitigation Area

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: _____

- 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.

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: Weld Silt Loam - Symbol 78 - Wellsite & Tank Battery Site

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: 05/09/2018

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: 557 Feet

water well: 2403 Feet

Estimated depth to ground water at Oil and Gas Location 94 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. Estimated Depth to Groundwater from Wtr Well Permit #261338.

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 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 a dry creek bed that falls approx. 557' Southeast of the well pad at its closest point and a barbed wire fence 58' South of the well pad, also an overhead power line falls approx. 882' West of the well pad. The only improvements that lie within the 500'-1000' buffer area of the wellsite and the tank battery area are the barbed wire fence and CR W.

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 assigned Yet)

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

Signed: _____ Date: 06/26/2018 Email: MREILLY@GMOCKS.COM
 Print Name: MICHAEL REILLY Title: PRESIDENT

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved:  Director of COGCC Date: 9/27/2018

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>

Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>
1	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 <p>Drill pits will be filled and reclaimed within 3 months weather permitting. Topsoil will be separated and spread on drill site as final operation.</p> <p>Storm Water Management Plan (SWMP) is on file in Grand Mesa Operating, Co office.</p> <p>Spill Prevention, Control and Countermeasure Plan is on file in Grand Mesa Operating, Co. office.</p>

Total: 1 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
901705	COMMUNITIZATION AGREEMENT
1010483	LOCATION DRAWING
1010485	HYDROLOGY MAP
401644656	FORM 2A SUBMITTED
401651434	ACCESS ROAD MAP
401651435	LOCATION PICTURES
401651437	LOCATION PICTURES
401651439	NRCS MAP UNIT DESC
401651440	UNIT CONFIGURATION MAP
401651441	OTHER
401652513	WASTE MANAGEMENT PLAN
401682098	OTHER
401686072	SURFACE AGRMT/SURETY

Total Attach: 13 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed.	09/21/2018
Permit	Added communitization agreement attachment, per operator request.	09/21/2018
OGLA	<p>Please verify that Land Application under the 900-Sereies Rules is not practical. - Per Operator request, changed Drilling Fluids Disposal to Commercial Disposal. - 09/11/2018</p> <p>- Per Operator request, removed the following from the OTHER DISPOSAL section: Wtr based Bentonitic drilling fluids, except deminimus amounts will be removed from the drilling pit and disposed of according with the 900 Series rules of the COGCC at The Cowboys #1-25 Loc ID #453932 pit in NW/NE Sec. 25-5S-54W, Washington, CO - 09/11/2018</p> <p>Corrected typo in the Surface and Minerals Tab. - Operator concurrence 09/11/2018</p> <p>Above Ground Utility is offset from the public road. Cultural Distances appear incorrect. - Verified with the Operator. Per Operator request, changed the distance from the well and from the production facility to 1022 feet and 60 feet, respectively, from the above ground utility. - 09/11/2018</p> <p>Corrected typo in the soils list. - Operator concurrence 09/11/2018</p> <p>Per Operator request, changed Estimated Depth to Groundwater to 94 feet bgs based on the static water level reported for DWR Water Well Permit #261338. Changed the Basis Statement to reflect DWR Permit #261338.</p> <p>Per Operator request, moved the following BMP to the Submit Tab as it is not an enforceable BMP: BMP Plan Grand Mesa Operating, Co. 1700 N Waterfront Pkwy, Bldg 600 Wichita, KS 67206 P - 316-265-3000 F - 316-265-3455</p> <p>Certification of Discharge under CDPHE COR-030000 Storm water discharges associated with construction permit number (Not assigned Yet)</p> <p>Per Operator request, removed the following BMP as it pertains to the APD and not the surface location: Per Rule 317.p -- Open-hole Resistivity Log with Gamma Ray Log will be run from TD into the surface casing. A Cement Bond Log with Gamma-Ray will be run on production casing, or on intermediate casing if a production liner is run. The Form 5, Completion Report, will list all logs run and have those logs attached.</p> <p>Location Drawing and Hydrology Map are missing the production facilities. - Per Operator request, uploaded the modified Location Drawing and Hydrology Map. - 09/18/2018</p> <p>Per Operator request, changed the size of disturbed area during Construction to 5.0 and the size of disturbed after Interim Reclamation to 2.0. - 09/11/2018 - Per Operator request, uploaded the modified Location Drawing and Hydrology Map. - 09/18/2018</p>	08/10/2018
Permit	Passed Completeness.	06/29/2018

Total: 4 comment(s)