

FORM  
2A

Rev  
08/13

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:

401333215

Date Received:

08/10/2017

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:

**453036**

Expiration Date:

**11/15/2020**

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

RECLAMATION FINANCIAL ASSURANCE

- Plugging and Abandonment Bond Surety ID: 20020080     Gas Facility Surety ID: \_\_\_\_\_
- Waste Management Surety ID: \_\_\_\_\_

LOCATION IDENTIFICATION

Name: YOSEMITE    Number: 1-3  
 County: LINCOLN  
 Quarter: SESE    Section: 3    Township: 8S    Range: 55W    Meridian: 6    Ground Elevation: 5503

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: 1007 feet FSL from North or South section line  
791 feet FEL from East or West section line

Latitude: 39.377160    Longitude: -103.531420

PDOP Reading: 1.6    Date of Measurement: 09/14/2017

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>      </u>	Condensate Tanks*	<u>      </u>	Water Tanks*	<u>      </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>      </u>	Injection Pumps*	<u>      </u>	Cavity Pumps*	<u>      </u>	Gas Compressors*	<u>      </u>
Gas or Diesel Motors*	<u>      </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**

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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:

**CONSTRUCTION**

Date planned to commence construction:   11/17/2017        Size of disturbed area during construction in acres:   2.00    
 Estimated date that interim reclamation will begin:   05/17/2018        Size of location after interim reclamation in acres:   1.00    
 Estimated post-construction ground elevation:   5501  

**DRILLING PROGRAM**

Will a closed loop system be used for drilling fluids:   No    
 Is H<sub>2</sub>S 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:   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: STEVEN J ANDERSEN Phone: 1-719-768-3417  
 Address: 53549 CO RD 42 Fax: \_\_\_\_\_  
 Address: \_\_\_\_\_ Email: \_\_\_\_\_  
 City: ARRIBA State: CO Zip: 80804  
 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 08/04/2017

**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:	4269 Feet	_____ Feet
Above Ground Utility:	565 Feet	_____ Feet
Railroad:	5280 Feet	_____ Feet
Property Line:	791 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, 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 (onl 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: KIMST LOAM - SYMBOL 144 - WELLSITE

NRCS Map Unit Name: WAGES LOAM -SYMBOL 209 - WELLSITE

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, Chokeycherry)
- 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: 66 Feet

water well: 1554 Feet

Estimated depth to ground water at Oil and Gas Location 55 Feet

Basis for depth to groundwater and sensitive area determination:

This area is marked as Sensitive due to the location in the Northern High Plains Designated Basin and the Arikaree Ground Water Mgmt area. The Lickdab Creek is 275' from well site.

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 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	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 COR03R725
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I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: \_\_\_\_\_ Date: 08/10/2017 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: 11/16/2017

### 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>
	Location lies within proximity to a tributary of the Lickdab Creek and 275 feet from Lickdab Creek. Operator shall use engineering controls and best management practices to mitigate potential contaminant, including sediment, migration into the nearby surface waters.

## 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"> <li>-Dirt berms</li> <li>-Erosion control blankets</li> <li>-Straw bale barrier</li> <li>-Straw wattle</li> <li>-Check dams</li> <li>-Culvert/Culvert Protection</li> <li>-Silt Fence</li> <li>-Surface roughening/Surface rip</li> </ul> <p>Drill pits will be filled and reclaimed within 6 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>
1010275	LOCATION PICTURES
1010304	LOCATION DRAWING
1010305	HYDROLOGY MAP
1010306	ACCESS ROAD MAP
1010307	REFERENCE AREA MAP
401333215	FORM 2A SUBMITTED
401370939	SURFACE AGRMT/SURETY
401371889	NRCS MAP UNIT DESC

Total Attach: 8 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed.	11/14/2017
OGLA	Updated Attachments for new location.	11/13/2017
Permit	Corrected ground elevation and date of GPS measurement, per revised well location plat.	10/19/2017
OGLA	<p>Surface location was moved to locate the Location out of the nearby intermitant stream.</p> <p>- Waiting on revised Location Drawing - Received - 10/02/2017</p> <p>10/04/2017:            Changed the lat/long to 39.377160/-103.531420.            Changed the surface footages to 1007 feet FSL and 791 feet FEL.            Changed the estimated date of construction to 11/17/2017 and the estimated date of interim reclamation to 05/17/2017.            Changed the distance to the nearest public road to 4269 feet.            Changed the distance to the nearest aboveground utility to 565 feet.            Changed the distance to the nearest property line to 791 feet.            Changed the distance to the nearest water well to 1554 feet based on the revised Hydrology Map.            Changed the distance to the nearest surface water feature to 66 feet based on the revised Hydrology Map.            Changed the estimated depth to groundwater to 55 feet based on the static water level as reported at DWR Water Well Permit #246846.            Changed the distance to the Lickdab Creek to 275 feet in the Basis Statement.</p> <p>Moved the following statement from the Operator BMP to the Submit Tab:</p> <p>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 COR03R725</p>	09/22/2017
LGD	County Permit # 1708	09/11/2017
Permit	Passed Completeness.	08/29/2017
Permit	<p>Returned to draft for:</p> <p>- "Surface &amp; Minerals" tab: the box for "surface owner is the mineral owner" is unchecked, but the boxes for "is committed to an oil and gas lease" and "has signed the Oil and Gas Lease" are checked. These last two should not be checked if the surface owner is not also the mineral owner. If the surface owner is the mineral owner, then this first box should also be checked.</p>	08/18/2017

Total: 7 comment(s)