

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:

400659209

Date Received:

09/03/2014

Oil and Gas Location Assessment

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

Submit signed original form. 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:

439390

Expiration Date:

10/22/2017

☒ 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: pbrewer@gmocks.com

RECLAMATION FINANCIAL ASSURANCE

☒ Plugging and Abandonment Bond Surety ID: 20020080 ☐ Gas Facility Surety ID: _____

☐ Waste Management Surety ID: _____

LOCATION IDENTIFICATION

Name: SHOOK Number: 1-29

County: WASHINGTON

QuarterQuarter: SENE Section: 29 Township: 2S Range: 52W Meridian: 6 Ground Elevation: 4827

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: 2187 feet FNL from North or South section line

1188 feet FEL from East or West section line

Latitude: 39.851230 Longitude: -103.223860

PDOP Reading: 2.2 Date of Measurement: 06/04/2014

Instrument Operator's Name: Elijah Frane-High Prarie Survey

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>2</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>	Temporary Large Volume Above Ground Tanks	<u> </u>
Pump Jacks	<u>1</u>	Separators	<u>1</u>	Injection Pumps	<u> </u>	Cavity Pumps	<u> </u>		
Gas or Diesel Motors	<u> </u>	Electric Motors	<u>1</u>	Electric Generators	<u> </u>	Fuel Tanks	<u> </u>	Gas Compressors	<u> </u>
Dehydrator Units	<u> </u>	Vapor Recovery Unit	<u> </u>	VOC Combustor	<u> </u>	Flare	<u> </u>	LACT Unit	<u> </u>
								Pigging Station	<u> </u>

OTHER FACILITIES

Other Facility Type

Number

<div></div>	<div></div>
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Per Rule 303.b.(3)C, description of all oil, gas, and/or water pipelines:

If well is successful - a flowline from the well to the tank battery will be installed. One 2 1/2" Lead line PVC pipe, pressurized 0-40# PSI and buried at least 4' below the ground surface.

CONSTRUCTION

Date planned to commence construction: 10/15/2014 Size of disturbed area during construction in acres: 3.50
Estimated date that interim reclamation will begin: 01/15/2015 Size of location after interim reclamation in acres: 2.00
Estimated post-construction ground elevation: 4827

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:

Water based Bentonitic drilling fluids, except de minimus amounts will be removed from the drilling pit and disposed in accordance with the 900 series rules.

Beneficial reuse or land application plan submitted?

Reuse Facility ID: or Document Number:

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

SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: Jason Shook

Phone: 970-554-0372

Address: 15514 County Rd AA

Fax: _____

Address: _____

Email: jandashook@plainstel.com

City: Anton State: CO Zip: 80801

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 08/25/2014

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

Distance to nearest:

Building: 4448 Feet
Building Unit: 5280 Feet
High Occupancy Building Unit: 5280 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 1188 Feet
Above Ground Utility: 4685 Feet
Railroad: 5280 Feet
Property Line: 1188 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.

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.

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: _____

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 - Unit #78 - 0 to 2 percent slope - Well Site

NRCS Map Unit Name: Removed "Norka-Colby Loams - Unit #47 - 3 to 5 percent slope - Tank Battery"

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: 450 Feet

water well: 5230 Feet

Estimated depth to ground water at Oil and Gas Location 93 Feet

Basis for depth to groundwater and sensitive area determination:

Well location is located in the Northern High Plains Designated GW Basin - Tank Battery will also be located in the Northern High Plains Designated GW Basin if the well is successful. Tank Battery location is included in the size of disturbed area during construction and reclamation size. No static water level was reported for this water well. DWR Permit #714 Static Level of 93'

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: _____

GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 609

DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

- ☐ Rule 604.a.(1)A. Exception Zone (within 500' of Building Unit)
- ☐ 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 are No visible improvements within 1000' of the Well site. There are no visible improvements with 1000' of the tank battery except for CR20 and HWY 63. The Tank Battery will be new if well is successful and dedicated solely to the Shook #1-29 well. It will be located within 50' of CR20.

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

Signed: _____ Date: 09/03/2014 Email: pbrewer@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: Matthew Lee Director of COGCC Date: 10/23/2014

Surface Owner Information

Owner Name	Address	Phone	Fax	Email
Jason Shook	15514 County Rd AA Anton, CO 80801	970-554-0372		jandashook@plainstel.com
The Lynn J. Shook Trust	175 E. 5th Street Akron, CO 80720	970-554-0373		
The Mary Ann Shook Trust	175 E. 5th Street Akron, CO 80720	970-554-0373		

3 Surface Owner(s)

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

	If the well produces, Operator shall submit a survey showing the latitude and longitude of the Production Facility along with a Facility Layout Drawing of the Production Facility via Form 4 Sundry.
	Operator shall submit a Form 42 to the COGCC 48 hours prior to commencement of construction activities. Per Operator telephone concurrence - 10/23/2014 - MMH

Best Management Practices

No BMP/COA Type

Description

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Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400659209	FORM 2A SUBMITTED
400678191	PROPOSED BMPS
400678192	LOCATION PICTURES
400678195	LOCATION DRAWING
400678196	ACCESS ROAD MAP
400678197	LOCATION PICTURES
400678209	HYDROLOGY MAP
400678235	HYDROLOGY MAP A, TOPO
400678237	NRCS MAP UNIT DESC

Total Attach: 9 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final review completed; no LGD or public comment received.	10/23/2014 6:51:13 AM
OGLA	Changed diastance to nearest surface water drainage to 450 feet based on the presence of an ephemeral drainage on theCOGIS and Google Maps. Per Operator telephone concurrence - 10/23/2014 - MMH	10/1/2014 6:46:30 PM
OGLA	Changed Sensitive Area to Yes as the proposed Location lies wuithin the Northern High Plains Groundwater Basin. Per Operator telephone concurrence - 10/23/2014 - MMH	10/1/2014 6:44:43 PM
OGLA	Changed Interim Reclamation date to 01/15/2015 for compliance with 1000 Series Rules. Per Operator telephone concurrence - 10/23/2014 - MMH	10/1/2014 6:38:49 PM
Permit	Revised distance to power line using COGCC GIS and Google Earth. Approved by operator.	9/9/2014 12:31:14 PM

Total: 5 comment(s)