

FORM  
2A

Rev  
04/01

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:

400254099

Date Received:

08/02/2012

Oil and Gas Location Assessment

☒ New Location ☐ Amend Existing Location Location#: \_\_\_\_\_

Submit original plus one copy. This form is to be submitted to the COGCC prior to any ground disturbance activity associated with oil and gas development operations. This Assessment may be approved as a standalone application or submitted as an informational report accompanying an Application for Permit-To-Drill, Form 2. Approval of this 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. This form may serve as notice to land owners and other interested parties, please see the COGCC web site at <http://colorado.gov/cogcc/> for all accompanying information pertinent to this Oil and Gas Location Assessment.

Location ID:

**433138**

Expiration Date:

**05/29/2016**

☐ This location assessment is included as part of a permit application.

1. 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.

2. Operator

Operator Number: 57667

Name: MINERAL RESOURCES, INC.

Address: PO BOX 328

City: GREELEY State: CO Zip: 80632

3. Contact Information

Name: Collin Richardson

Phone: (970) 352-9446

Fax: (800) 850-9334

email: collin@mineralresourcesinc.com

4. Location Identification:

Name: South Greeley Directional Number: #1

County: WELD

QuarterQuarter: SWNE Section: 24 Township: 5N Range: 66W Meridian: 6 Ground Elevation: 4813

Define a single point as a location reference for the facility location. This point should be used as the point of measurement in the drawings to be submitted with this application. When the location is to be used as a well site then the point shall be a well location.

Footage at surface: 1427 feet FNL, from North or South section line, and 1970 feet FEL, from East or West section line.

Latitude: 40.388100 Longitude: -104.722850 PDOP Reading: 1.0 Date of Measurement: 02/21/2012

Instrument Operator's Name: David Berglund

5. Facilities (Indicate the number of each type of oil and gas facility planned on location):

Special Purpose Pits: <input type="text"/>	Drilling Pits: <input type="text"/>	Wells: <input type="text" value="67"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text"/>	Water Tanks: <input type="text" value="4"/>	Separators: <input type="text" value="30"/>	Electric Motors: <input type="text"/>	Multi-Well Pits: <input type="text"/>
Gas or Diesel Motors: <input type="text" value="1"/>	Cavity Pumps: <input type="text"/>	LACT Unit: <input type="text"/>	Pump Jacks: <input type="text"/>	Pigging Station: <input type="text"/>
Electric Generators: <input type="text"/>	Gas Pipeline: <input type="text"/>	Oil Pipeline: <input type="text"/>	Water Pipeline: <input type="text"/>	Flare: <input type="text"/>
Gas Compressors: <input type="text" value="1"/>	VOC Combustor: <input type="text" value="1"/>	Oil Tanks: <input type="text" value="32"/>	Fuel Tanks: <input type="text"/>	

Other: Gas motor and compressor are part of VRU

6. Construction:

Date planned to commence construction: 07/01/2013 Size of disturbed area during construction in acres: 10.00  
 Estimated date that interim reclamation will begin: 07/01/2014 Size of location after interim reclamation in acres: 3.00  
 Estimated post-construction ground elevation: 4813 Will a closed loop system be used for drilling fluids: Yes ☒  
 Will salt sections be encountered during drilling: Yes ☐ No ☒ Is H2S anticipated? Yes ☐ No ☒  
 Will salt (>15,000 ppm TDS Cl) or oil based muds be used: Yes ☐ No ☒  
 Mud disposal: Offsite ☒ Onsite ☐ Method: Land Farming ☐ Land Spreading ☒ Disposal Facility ☐  
 Other: \_\_\_\_\_

## 7. Surface Owner:

Name: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Address: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Address: \_\_\_\_\_ Email: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Date of Rule 306 surface owner consultation: \_\_\_\_\_  
 Surface Owner: ☒ Fee ☐ State ☐ Federal ☐ Indian  
 Mineral Owner: ☒ Fee ☐ State ☐ Federal ☐ Indian  
 The surface owner is: ☐ the mineral owner ☐ committed to an oil and gas lease  
                                   ☐ is the executer of the oil and gas lease ☒ the applicant  
 The right to construct the location is granted by: ☐ oil and gas lease ☒ Surface Use Agreement ☐ Right of Way  
    ☐ applicant is owner  
 Surface damage assurance if no agreement is in place: ☐ \$2000 ☐ \$5000 ☐ Blanket Surety ID \_\_\_\_\_

## 8. Reclamation Financial Assurance:

☒ Well Surety ID: 20090133 ☐ Gas Facility Surety ID: \_\_\_\_\_ ☐ Waste Mgnt. Surety ID: \_\_\_\_\_

## 9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes ☒ No ☐  
 Distance, in feet, to nearest building: 703, public road: 640, above ground utility: 468,  
   railroad: 9672, property line: 350

## 10. 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

## 11. 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

## 12. Soils:

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.gov/> 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: 51 Otero Sandy Loam, 1 to 3 percent slopes

NRCS Map Unit Name: 52 Otero Sandy Loam, 3 to 5 percent slopes

NRCS Map Unit Name: 13 Cascajo Gravelly Sandy Loam, 5 to 20 percent slopes

### 13. 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): \_\_\_\_\_

### 14. Water Resources:

Rule 901.e. may require a sensitive area determination be performed. If this determination is performed the data is to be submitted with the Form 2A.

Is this a sensitive area: ☒ No ☐ Yes Was a Rule 901.e. Sensitive Areas Determination performed: ☒ No ☐ Yes

Distance (in feet) to nearest surface water: 2185 , water well: 1397 , depth to ground water: 39

Is the location in a riparian area: ☒ No ☐ Yes Was an Army Corps of Engineers Section 404 permit filed ☒ No ☐ Yes

Is the location within a Rule 317B Surface Water Supply Area buffer zone:

☒ No ☐ 0-300 ft. zone ☐ 301-500 ft. zone ☐ 501-2640 ft. 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: ☐ No ☐ Yes

### 15. Comments:

1. Richmark Energy Partners, LLC is a subsidiary of Mineral Resources, Inc. Please see attached surface use agreement.  
2. Depth to groundwater determined from static water level of nearby water well, permit number 2318--. 3. Mineral Resources is requesting a variance to Rule 303.d.(5), see attached Variance Request. 4. The proposed well pad is located on Tract A of the Kirk Watson Subdivision. The Kirk Watson subdivision has been approved by the City of Greeley and is in the process of being recorded with the county. See attached plat.

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

Signed: \_\_\_\_\_ Date: 08/02/2012 Email: dan.hull@LRA-inc.com

Print Name: Dan Hull Title: Senior Project Manager

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: 5/30/2013

**CONDITIONS OF  
APPROVAL, IF ANY:**

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.

### Attachment Check List

Att Doc Num	Name
2086262	WASTE MANAGEMENT PLAN
400254099	FORM 2A SUBMITTED
400311907	SURFACE AGRMT/SURETY
400311912	NRCS MAP UNIT DESC
400311914	NRCS MAP UNIT DESC
400311916	NRCS MAP UNIT DESC
400311918	VARIANCE REQUEST
400311920	MULTI-WELL PLAN
400311923	HYDROLOGY MAP
400311924	LOCATION DRAWING
400311925	ACCESS ROAD MAP
400311935	OTHER
400311937	LOCATION PICTURES
400311938	LOCATION PICTURES

Total Attach: 14 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Operator requests Rule 502.b Variance from Rule 303.3(5) for the approval of this multi-well location Form 2A without the approval of a Form 2 for a well on the pad. See attached Variance Request Letter. Director Matt Lepore has granted this Rule 502.b. Variance.	5/30/2013 8:07:19 AM
OGLA	Reviewed 4/9/2013. Revised Waste Management Plan attached.	4/9/2013 2:21:54 PM
Permit	Requested update from opr on Waste Management Plan.	2/27/2013 2:57:08 PM
OGLA	Placed Form 2A ON HOLD for Waste Management Plan.	2/12/2013 1:23:09 PM
OGLA	Waste Management Plan submitted by operator is insufficient.	2/12/2013 1:22:17 PM
Permit	Ready to pass pending public comment 8/23/12.	8/10/2012 10:24:50 AM

Total: 6 comment(s)

### BMP

<u>Type</u>	<u>Comment</u>
Drilling/Completion Operations	<p>Public Notice</p> <ul style="list-style-type: none"> <li>-A sign with Mineral Resources' contact information and a 24 hour contact number will be placed at or near the access road entrance.</li> <li>-For this project, per the City of Greeley's Use by Special Review process, public notice will be provided by the city staff. Notice will be provided in the following forms: by a sign, of sufficient size, placed on the property for 7 or more consecutive days prior to the meeting, by newspaper advertisement at least 5 but not more than 15 days prior to the public meetings, and by courtesy letter. At the public hearing, area residents will have the opportunity to speak and ask questions about the project.</li> <li>- Mineral Resources will hold a Neighborhood meeting prior to planning commission hearing if recommended by city staff.</li> </ul>
Material Handling and Spill Prevention	<p>Spill Prevention</p> <ul style="list-style-type: none"> <li>-All materials, waste, and fluids kept on-site will be stored in an appropriate manner to prevent contamination of the environment.</li> <li>-If a spill occurs, it will be cleaned up using absorbent material and by removing the contaminated soil.</li> <li>-Any contaminated soil will be disposed of appropriately.</li> <li>-All efforts will be made to prevent the spill from migrating off-site or coming into contact with stormwater runoff.</li> <li>-The Spill Control and Countermeasures plan will address and control all spill procedures.</li> </ul>
General Housekeeping	<p>Solid Waste</p> <ul style="list-style-type: none"> <li>-The site will be cleaned of all trash and waste as soon as practical.</li> <li>-All waste will be stored in sealed containers until it can be disposed of appropriately.</li> <li>-Solid waste will be removed from the site and disposed of per state regulations for solid waste.</li> </ul>
Storm Water/Erosion Control	<p>Fugitive Dust and Vehicle Tracking</p> <ul style="list-style-type: none"> <li>-Traffic speeds will be limited to control fugitive dust.</li> <li>-Watering will be completed to control fugitive dust as needed.</li> <li>-Graveled entries will be provided for vehicle tracking control.</li> <li>-Furrowing of disturbed soil will be provided at right angles to prevailing winds as needed.</li> </ul>
Planning	<p>Project Phasing</p> <ul style="list-style-type: none"> <li>-The drilling of the wells at this location will be phased.</li> <li>-Phasing the drilling schedule will minimize impacts to surrounding neighbors by reducing the length of continued drilling periods.</li> </ul>
Interim Reclamation	<p>Reclamation</p> <p>Interim and/or final reclamation of the site will be completed per COGCC rules and regulations.</p>
General Housekeeping	<p>Noxious Weeds</p> <ul style="list-style-type: none"> <li>-The site will be inspected for weed infested areas.</li> <li>-Prompt action will be taken to mitigate infested areas.</li> <li>-All noxious weeds identified will not be allowed to reach the flowering or seed dispersal stage.</li> <li>-Vehicles will not be allowed to drive through weed infested areas.</li> <li>-Machinery will not be parked in weed infested areas.</li> <li>-Vehicles sent off-site regularly will be inspected to assure that undercarriages and grill works are kept free of weed seed.</li> <li>-Undercarriages of vehicles or machinery potentially contaminated with noxious weed seeds will be washed before entry is made into noninfested areas.</li> </ul>
Storm Water/Erosion Control	<p>Stormwater</p> <ul style="list-style-type: none"> <li>-Mineral Resources maintains a Field Wide Stormwater Management Permit, Certification No.COR03H509. This site falls under this permit.</li> <li>-Stormwater best management practices will be completed per the site specific stormwater management plan.</li> <li>-Permanent seeding will be installed once all drilling and completion activities are finalized.</li> <li>-All stormwater best management practices will remain in place until final stabilization is achieved.</li> </ul>
Total: 8 comment(s)	