

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:

400686475

Date Received:

09/12/2014

Oil and Gas Location Assessment

☐ New Location ☐ Refile ☒ Amend Existing Location Location#: 305484

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:

**305484**

Expiration Date:

**10/15/2017**

☒ 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: 10373  
Name: NGL WATER SOLUTIONS DJ LLC  
Address: 3773 CHERRY CRK NORTH DR #1000  
City: DENVER State: CO Zip: 80209

Contact Information

Name: Paul Gottlob  
Phone: (720) 420-5747  
Fax: ( )  
email: paul.gottlob@iptemergyservices.com

RECLAMATION FINANCIAL ASSURANCE

☒ Plugging and Abandonment Bond Surety ID: 20110128 ☐ Gas Facility Surety ID: \_\_\_\_\_  
☐ Waste Management Surety ID: \_\_\_\_\_

LOCATION IDENTIFICATION

Name: NGL Number: C1C  
County: WELD  
QuarterQuarter: SESE Section: 8 Township: 4N Range: 64W Meridian: 6 Ground Elevation: 4706  
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: 336 feet FSL from North or South section line  
211 feet FEL from East or West section line  
Latitude: 40.320590 Longitude: -104.565810  
PDOP Reading: 1.7 Date of Measurement: 07/18/2014  
Instrument Operator's Name: KYLE RUTZ

## 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>2</u>      | Oil Tanks           | <u>      </u> | Condensate Tanks     | <u>      </u> | Water Tanks     | <u>      </u> | Buried Produced Water Vaults              | <u>      </u> |
| Drilling Pits        | <u>      </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>      </u> | Separators          | <u>      </u> | Injection Pumps      | <u>      </u> | Cavity Pumps    | <u>      </u> |   |               |
| Gas or Diesel Motors | <u>      </u> | Electric Motors     | <u>      </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

|                      |                      |
|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> |
|----------------------|----------------------|

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

Intra-facility flow lines generally 4" fusion bonded schedule 160 steel from WH to Facility Tanks on location.

## CONSTRUCTION

Date planned to commence construction: 10/15/2014 Size of disturbed area during construction in acres: 2.80  
Estimated date that interim reclamation will begin: 03/15/2015 Size of location after interim reclamation in acres: 2.80  
Estimated post-construction ground elevation: 4706

## DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: Yes

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: OFFSITE Drilling Fluids Disposal Method: Commercial Disposal

Cutting Disposal: OFFSITE Cuttings Disposal Method: Commercial Disposal

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: Grassland Water Sol. LLC Phone:

Address: 1400 16th Street, Suite 400

Fax: \_\_\_\_\_

Address: \_\_\_\_\_

Email: \_\_\_\_\_

City: Denver State: CO Zip: 80202

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: No

The right to construct this Oil and Gas Location is granted by: applicant is owner

Surface damage assurance if no agreement is in place: \_\_\_\_\_ Surface Surety ID: \_\_\_\_\_

Date of Rule 306 surface owner consultation \_\_\_\_\_

## 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: 315 Feet  
Building Unit: 513 Feet  
High Occupancy Building Unit: 5280 Feet  
Designated Outside Activity Area: 5280 Feet  
Public Road: 200 Feet  
Above Ground Utility: 240 Feet  
Railroad: 5280 Feet  
Property Line: 211 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: 08/11/2014

## 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: Aquolls and Aquepts #4

NRCS Map Unit Name: Vona loamy sand #72

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: 305 Feet

water well: 302 Feet

Estimated depth to ground water at Oil and Gas Location 68 Feet

Basis for depth to groundwater and sensitive area determination:

Downgradient surface water feature is the Gilmore Ditch to the Northeast.  
Nearest Water Well: Permit #63475, to the Northeast, with a Static Water Level of 68' and depth of 150'

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 Two Easement Agreements are attached as Other.

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

Signed: \_\_\_\_\_ Date: 09/12/2014 Email: paul.gottlob@iptemergyservices.com

Print Name: Paul Gottlob Title: Regulatory & Engin. Tech.

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: 10/16/2014

### **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**

|  |  |
|--|--|
|  | Operator shall provide notice to COGCC 48 hours prior to commencing construction of this Oil and Gas Location via Form 42. |
|--|--|

## **Best Management Practices**

| <b>No</b> | <b>BMP/COA Type</b>            | <b>Description</b>  |
|-----------|--------------------------------|---|
| 1         | Planning                       | This will be a 2 well pad with an existing facility already in operation for the separation of hydrocarbons and waste, the separated produced water shall be filtered prior to injection.   |
| 2         | Traffic control                | Access road: The access road will be constructed to accommodate local emergency vehicles. This road will be maintained for access at all times.   |
| 3         | General Housekeeping           | Fencing requirements. A permanent fencing plan will be reviewed by the surface owner, & the applicant.  |
| 4         | General Housekeeping           | Removal of surface trash. All trash, debris and material not intrinsic to the operation of the oil and gas facility shall be removed and legally disposed of as is applicable.  |
| 5         | Noise mitigation               | Lighting abatement measures shall be implemented, including the installation of lighting shield devices on all of the more conspicuous lights, low density sodium lighting where practicable; and rig shrouding will be used as well as sound walls on the north side during drilling and completion activities to provide noise relief, as the nearest building unit is just over 500' to the north. Permanent equipment on location shall be muffled to reduce noise, or shall be appropriately buffered. |
| 6         | Odor mitigation                | Per Rule 805: Oil & gas facilities and equipment shall be operated in such a manner that odors and dust do not constitute a nuisance or hazard to public welfare.   |
| 7         | Drilling/Completion Operations | Closed Loop Drilling Systems – Pit Restrictions. Not applicable; a closed-loop system will be used for drilling.  |
| 8         | Drilling/Completion Operations | Green Completions – No hydrocarbons will be produced from this well – NA.   |
| 9         | Drilling/Completion Operations | Blowout preventer equipment (“BOPE”). A double ram and annular preventer will be used during drilling. At least the drilling company shall have a valid well blowout prevention certifications. Stabbing valves shall be installed in the event of reverse circulation and shall be prior tested with low and high pressure fluid.  |
| 10        | Drilling/Completion Operations | Drill stem tests. Not applicable; no Drill Stem tests are planned.  |
| 11        | Drilling/Completion Operations | Control of fire hazards. All materials which are considered fire hazards shall be a minimum of 25' from the wellhead tanks or separators. Electrical equipment shall comply with API RP 500 and will comply with the current national electrical code. An emergency response plan has been generated for this site.   |
| 12        | Drilling/Completion Operations | Guy line anchors. All guy line anchors shall be brightly marked pursuant to Rule 604.c (2)Q.  |
| 13        | Final Reclamation              | Well site cleared. Within 90-day subsequent to the time of plugging and abandonment of the entire site, superfluous debris and equipment shall be removed from the site.  |
| 14        | Final Reclamation              | P&A'd wells shall be identified pursuant to 319.a.(5).  |

Total: 14 comment(s)

### Attachment Check List

| <u>Att Doc Num</u> | <u>Name</u>               |
|--------------------|---------------------------|
| 2086918            | RULE 306.E. CERTIFICATION |
| 400686475          | FORM 2A SUBMITTED         |
| 400686549          | LOCATION DRAWING          |
| 400686554          | LOCATION PICTURES         |
| 400686560          | ACCESS ROAD MAP           |
| 400686562          | HYDROLOGY MAP             |
| 400686564          | NRCS MAP UNIT DESC        |
| 400686567          | NRCS MAP UNIT DESC        |
| 400686570          | WASTE MANAGEMENT PLAN     |
| 400686574          | OTHER                     |
| 400686576          | OTHER                     |
| 400686579          | OTHER                     |

Total Attach: 12 Files

### General Comments

| <u>User Group</u> | <u>Comment</u>  | <u>Comment Date</u>       |
|-------------------|---|---------------------------|
| Permit            | Final Review Completed. No LGD or public comment received.  | 10/15/2014<br>3:57:20 PM  |
| OGLA              | Changed the name of the location and attached certification letters as provide by IPT.  | 10/14/2014<br>10:59:27 AM |
| Permit            | Ok to pass.   | 9/25/2014<br>1:37:44 PM   |
| OGLA              | Third attachment "other" is the 305.a certification.  | 9/25/2014<br>9:13:24 AM   |
| Permit            | Passed Completeness   | 9/18/2014<br>9:02:54 AM   |
| OGLA              | Passed Buffer Zone completeness check. Pipeline desription requires additional detail. Related remote location not listed. Intra facility flow lines described to tanks on location are not on Facilities list. | 9/17/2014<br>8:02:54 AM   |
| Permit            | Within Buffer Zone, sent to John Noto for further review.   | 9/15/2014<br>8:26:58 AM   |

Total: 7 comment(s)