

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:

400543363

Date Received:

01/22/2014

Oil and Gas Location Assessment

☐ New Location ☐ Refile ☒ Amend Existing Location Location#: 434590

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:

434590

Expiration Date:

02/22/2017

☒ 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: 10110
Name: GREAT WESTERN OPERATING COMPANY LLC
Address: 1801 BROADWAY #500
City: DENVER State: CO Zip: 80202

Contact Information

Name: Callie Fiddes
Phone: (303) 398-0550
Fax: ()
email: regulatorypermitting@gwogco.com

RECLAMATION FINANCIAL ASSURANCE

☒ Plugging and Abandonment Bond Surety ID: 20090080 ☐ Gas Facility Surety ID: _____
☐ Waste Management Surety ID: _____

LOCATION IDENTIFICATION

Name: Postle IC East Pad Number: 11-33HN
County: WELD
QuarterQuarter: SWSW Section: 12 Township: 3N Range: 68W Meridian: 6 Ground Elevation: 4927
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: 528 feet FSL from North or South section line
250 feet FWL from East or West section line
Latitude: 40.234944 Longitude: -104.959992
PDOP Reading: 1.2 Date of Measurement: 04/19/2013
Instrument Operator's Name: R. Kay

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 #

Well Site is served by Production Facilities

434591

FACILITIES

Indicate the number of each type of oil and gas facility planned on location

| | | | | | | | | | |
|----------------------|---|---------------------|--|----------------------|--|-----------------|--|---|---|
| Wells | 4 | Oil Tanks | | Condensate Tanks | | Water Tanks | | Buried Produced Water Vaults | |
| Drilling Pits | | Production Pits | | Special Purpose Pits | | Multi-Well Pits | | Temporary Large Volume Above Ground Tanks | 0 |
| Pump Jacks | | Separators | | Injection Pumps | | Cavity Pumps | | | |
| Gas or Diesel Motors | | Electric Motors | | Electric Generators | | Fuel Tanks | | Gas Compressors | |
| Dehydrator Units | | Vapor Recovery Unit | | VOC Combustor | | Flare | | LACT Unit | |
| | | | | | | | | Pigging Station | |

OTHER FACILITIES

Other Facility Type

Number

| | |
|--|--|
| | |
|--|--|

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

4 - 3" steel line
3 - 3" steel oil line
3 - 3" steel vent line
2 - 3" steel return gas line
2 - 3" poly pipe

CONSTRUCTION

Date planned to commence construction: 08/01/2014

Size of disturbed area during construction in acres: 6.09

Estimated date that interim reclamation will begin: 10/15/2014

Size of location after interim reclamation in acres: 0.01

Estimated post-construction ground elevation: 4925

DRILLING PROGRAM

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

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: 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: Postle Properties III LLC

Phone: _____

Address: 3168 5th St

Fax: _____

Address: _____

Email: _____

City: Boulder State: CO Zip: 80304

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: Surface Use Agreement

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

Date of Rule 306 surface owner consultation 05/01/2013

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: 637 Feet
Building Unit: 637 Feet
High Occupancy Building Unit: 5280 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 454 Feet
Above Ground Utility: 491 Feet
Railroad: 4035 Feet
Property Line: 250 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: 08/09/2013

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: #42 - Nunn clay loam 1 to 3 percent slopes

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: _____

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: 2004 Feet

water well: 784 Feet

Estimated depth to ground water at Oil and Gas Location 28 Feet

Basis for depth to groundwater and sensitive area determination:

Downgradient surface water is 2004 feet to the south of the location.

Water well at 974 feet in distance and depth at 28 feet and a secondary water well at 1604 feet in distance and depth at 90 feet.

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 318A

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 Original 2A had two temporary large volume tanks - this 2A lists none. Water for completion operations will be sourced an alternative way.

The minerals directly under the tank battery are not within our lease however we have a surface agreement and subsurface agreement with both the surface owner and the lessor of the minerals. Therefore we have both the right to construct with the surface owner/mineral owner with an oil and gas lease and an SUA.

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

Signed: _____ Date: 01/22/2014 Email: regulatorypermitting@gwogco.com

Print Name: Callie Fiddes Title: Regulatory 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: 2/23/2014

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

| | |
|--|--|
| | |
|--|--|

Best Management Practices

No BMP/COA Type

Description

| | | |
|---|----------------------|---|
| 1 | General Housekeeping | General housekeeping will consist of neat and orderly storage of materials and fluids. Wastes will be temporarily stored in sealed containers and regularly collected and disposed of at offsite, suitable facilities. If spills occur prompt cleanup is required to minimize any commingling of waste materials with storm water runoff. Routine maintenance will be limited to fueling and lubrication of equipment. Drip pans will be used during routine fueling and maintenance to contain spills or leaks. Any waste product from maintenance will be containerized and transported offsite for disposal or recycling. There will be no major equipment overhauls conducted onsite. Equipment will be transported offsite for major overhauls. Cleanup will consist of patrolling the roadways, access areas, and other work areas to pick up trash, scrap debris, other discarded materials, and any contaminated soil. These materials will be disposed of properly and promptly. |
|---|----------------------|---|

| | | |
|---|--|--|
| 2 | Wildlife | <p>GWOC revised the wells for this site from nine to four to reduce the size of the wellpad. In addition, GWOC moved the well pad location south to a site abutting the county road and has moved the battery to be adjacent to an existing tank battery also abutting the county road to the south. These voluntary actions by GWOC mitigated; the pad size, the direct pad proximity to the nest, moving the pad outside the 0.25 radius of the nest, and the access route from directly under the nest site by rerouting the access route away from the nest site to directly off the county road into the revised pad locations from the south. Note that the landowner regularly utilizes the road beneath the subject nest for access and farming activities and will continue to do so. The Bald Eagle pair utilizing this nest have apparently not been adversely impacted by the farm operations surrounding the nest, or the county road and the existing oil and gas activity (well and battery), both within 0.5 miles of the nest site, as they have remained in the area utilizing this nest for at least the past five years according to the landowner.</p> <p>The CPW Recommended Buffer Zones and Seasonal Restrictions recommend that within a 0.5 mile radius of an active nest human encroachment be restricted from October 15 through July 31 annually. GWOC commits to no construction, drilling, or completion activities except in emergency situations during these time frames, or with prior approval from CPW.</p> <p>After consultation with CPW, in addition to the above GWOC committed mitigation measures; Wellpad: GWOC has also agreed to place either a minimum 8-foot hay bale or other visual deterrent-type wall around the northern edge and northwestern corner of the wellpad during drilling and completion activities.</p> <p>Battery: A minimum 6-foot fence with slats along the northern edge and around the northwestern corner of the well pad and tank battery when the site is in production, to reduce view issues with ground-level activities.</p> |
| 3 | Storm Water/Erosion Control | <p>Storm Water Management Plans (SWMP) are in place to address construction, drilling and operations associated with Oil and Gas development throughout the state of Colorado in accordance with Colorado Department of Public Health and Environment (CDPHE). BMP's will be constructed around the perimeter of the site prior to, or at the beginning of construction. BMP's used will vary according to the location, and will remain in place until the pad reaches final reclamation.</p> |
| 4 | Material Handling and Spill Prevention | <p>Spill Prevention Control and Countermeasures (SPCC) plans are in place to address any possible spills associated with Oil and Gas operations throughout the state of Colorado in accordance with CFR 112.</p> <p>In accordance with COGCC Rule 1002.f.(2)A. & B., shall provide a designated storage area for dry bulk chemicals and miscellaneous fluids. The storage area shall be covered to prevent contact of precipitation with chemicals, shall be elevated above storm- or standing water, and shall provide sufficient containment to prevent release of spilled fluids or chemicals from impacting soil, surface water or groundwater and will prevent the co-mingling of spilled fluids or chemicals with other E & P Waste.</p> |
| 5 | Noise mitigation | <p>Noise levels will be maintained at levels not to exceed COGCC specifications currently in existence, measured at a point 350' from the noise source, or as defined by current COGCC regulations. Where possible, drilling rig engine exhaust will be vented away from occupied buildings. Light sources will likewise be directed downwards, and away from occupied structures where possible. No special noise mitigation efforts should be required at this site. Once the drilling and completion rigs leave the site, there will be no permanently installed lighting on site.</p> |

Total: 5 comment(s)

Attachment Check List

| <u>Att Doc Num</u> | <u>Name</u> |
|--------------------|-------------------------|
| 400543363 | FORM 2A SUBMITTED |
| 400543688 | ACCESS ROAD MAP |
| 400543690 | CONST. LAYOUT DRAWINGS |
| 400543694 | LOCATION DRAWING |
| 400543695 | LOCATION PICTURES |
| 400543700 | FACILITY LAYOUT DRAWING |
| 400543706 | MULTI-WELL PLAN |
| 400543709 | REFERENCE AREA PICTURES |
| 400543710 | TOPO MAP |
| 400543711 | NRCS MAP UNIT DESC |
| 400543727 | WASTE MANAGEMENT PLAN |
| 400543755 | HYDROLOGY MAP |
| 400543756 | REFERENCE AREA MAP |
| 400544638 | SURFACE AGRMT/SURETY |

Total Attach: 14 Files

General Comments

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u> |
|-------------------|--|--------------------------|
| Permit | Final Review Completed. No LGD or public comment received. | 2/18/2014 11:58:19 AM |
| OGLA | Changed date planned to commence construction to comply with Bald Eagle timing stipulations. Review completed. | 2/5/2014 11:11:53 AM |
| Permit | Per operator changed Date of Planned Commence Construction from 10/1/2013 to 3/1/2014. ok to pass. | 2/3/2014 3:41:27 PM |
| Permit | Need corrected Date Planned to Commence Construction. (must be in future.) | 1/28/2014 11:10:42 AM |
| Permit | Passed completeness. | 1/23/2014 2:00:40 PM |
| Permit | Returned to draft: Attached SUA still won't open. | 1/23/2014 12:14:02 PM |
| Permit | Returned to draft: Attached SUA won't open. | 1/23/2014 11:27:29 AM |

Total: 7 comment(s)