

FORM
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04/01State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



DE ET OE ES

Document Number:

400243677

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:

427917

Expiration Date:

02/25/2015
☒ 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: 10110

Name: GREAT WESTERN OIL & GAS COMPANY LLC

Address: 700 AUTOMATION DR - UNIT A

City: WINDSOR State: CO Zip: 80550-3119

3. Contact Information

Name: Janni Keidel

Phone: (303) 398-0388

Fax: (866) 742-1784

email: jkeidel@gwogco.com

4. Location Identification:

Name: Raindance SESE Pad Number: 30-54

County: WELD

QuarterQuarter: SESE Section: 30 Township: 6N Range: 67W Meridian: 6 Ground Elevation: 4985

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: 188 feet FSL, from North or South section line, and 560 feet FEL, from East or West section line.

Latitude: 40.451200 Longitude: -104.928520 PDOP Reading: 1.9 Date of Measurement: 12/28/2011

Instrument Operator's Name: C. Vanmatre

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="4"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text" value="4"/>	Water Tanks: <input type="text" value="2"/>	Separators: <input type="text" value="3"/>	Electric Motors: <input type="text"/>	Multi-Well Pits: <input type="text"/>
Gas or Diesel Motors: <input type="text"/>	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="2"/>	VOC Combustor: <input type="text" value="3"/>	Oil Tanks: <input type="text" value="4"/>	Fuel Tanks: <input type="text"/>	

Other: _____

6. Construction:

Date planned to commence construction: 03/10/2012 Size of disturbed area during construction in acres: 2.50
 Estimated date that interim reclamation will begin: 09/30/2012 Size of location after interim reclamation in acres: 0.50
 Estimated post-construction ground elevation: 4985 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: 12/28/2011
 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: 20090080 ☐ 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: 806 , public road: 600 , above ground utilit: 682
 , railroad: 11164 , property line: 188

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: Colby loam, 3 to 5 percent, #16

NRCS Map Unit Name: Thedalund loam, 3 to 9 percent, #65

NRCS Map Unit Name: _____

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: 3190, water well: 4425, depth to ground water: 3

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:

Total of 4 wells will be drilled from this location. Conductor casing will not be set. Conductor casing will not be set. A total of 4 wells will be drilled from this location: Raindance 30-54 (Doc#400242479), Raindance 30-44 (Doc#400242519), Raindance 30-43 (Doc #400242567), Raindance 30-34 (Doc 400242578). Surface Exception Waiver letter has been executed without protest from surface owner, and letter submitted to the Director of COGCC for approval. Production Casing cement will be minimum 200' above the Niobrara for all 4 wells.

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

Signed: _____ Date: 01/27/2012 Email: jkeidel@gwogco.com

Print Name: Janni Keidel Title: Permit & Reg. Analyst

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: David S. Neslin Director of COGCC Date: 2/26/2012

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.

In accordance with COGCC Rule 1002.f.(2)A. & B., operator 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.

Attachment Check List

Att Doc Num	Name
1694717	LOCATION DRAWING
1694718	CORRESPONDENCE
2613931	ACCESS ROAD MAP
2613932	NRCS MAP UNIT DESC
2613933	CORRESPONDENCE
400243677	FORM 2A SUBMITTED
400244296	HYDROLOGY MAP
400244298	MULTI-WELL PLAN
400244300	MULTI-WELL PLAN
400244342	LOCATION PICTURES
400244343	MINERAL LEASE MAP
400244346	SURFACE AGRMT/SURETY
400246459	NRCS MAP UNIT DESC
400246604	WASTE MANAGEMENT PLAN
400246612	EXCEPTION LOC REQUEST

Total Attach: 15 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed. No LGD or public comment received.	2/21/2012 10:54:03 AM
Permit	Changed surface owner is mineral owner to NO per operator.	2/21/2012 9:08:44 AM
OGLA	Attached revised Access Road Map from the operator; attached NRCS Map Unit Desc; revised the facilities list; Ready to Pass 2/20/2012	2/2/2012 4:08:26 PM
Permit	rig height is given as 136'. Road originally noted on location drawing 188' south of pad is private road with gates at each end. See correspondence. OK to pass 2/20/12.	1/31/2012 4:39:36 PM
Permit	ON HOLD: Requesting a 502.b variance for the road 188' from the well head.	1/31/2012 4:38:00 PM
OGLA	The water well with permit 62724-F is located along the Cache La Poudre River corridor, approximately 150 feet lower in elevation than the location; water well permit 63272 is at an elevation similar to the location, with a reported depth to water of 63 feet. Therefore, despite a depth to water of 3 feet reported by the operator, the location is not likely in a sensitive area.	1/31/2012 9:18:01 AM
Permit	Operator attached WMP and access road map. This form has passed completeness.	1/30/2012 11:08:19 AM
Permit	Returned to draft. Missing access road and WMP attachment.	1/30/2012 8:24:37 AM
Permit	Returned to draft. Missing access road and WMP attachment.	1/30/2012 7:11:38 AM

Total: 9 comment(s)

BMP

Type

Comment

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Total: 0 comment(s)