

FORM 2A

Rev 04/01

State of Colorado Oil and Gas Conservation Commission

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



Table with columns DE, ET, OE, ES

Document Number: 400211369

Oil and Gas Location Assessment

New Location Amend Existing Location Location#: 302300

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.

Location ID: 302300 Expiration Date: 10/27/2014

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: Lisa Pfizenmaier
Phone: (970) 686-8831
Fax: ()
email: lpfizenmaier@gwogco.com

4. Location Identification:

Name: Manenti Number: 20-44
County: WELD
Quarter: SESE Section: 20 Township: 7N Range: 66W Meridian: 6 Ground Elevation: 4939

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.

Footage at surface: 673 feet FSL, from North or South section line, and 681 feet FEL, from East or West section line.
Latitude: 40.554990 Longitude: -104.795050 PDOP Reading: 2.6 Date of Measurement: 09/22/2010
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: [] Drilling Pits: [] Wells: [2] Production Pits: [] Dehydrator Units: []
Condensate Tanks: [] Water Tanks: [] Separators: [] Electric Motors: [] Multi-Well Pits: []
Gas or Diesel Motors: [] Cavity Pumps: [] LACT Unit: [] Pump Jacks: [] Pigging Station: []
Electric Generators: [] Gas Pipeline: [] Oil Pipeline: [] Water Pipeline: [] Flare: []
Gas Compressors: [] VOC Combustor: [] Oil Tanks: [] Fuel Tanks: []

Other: Tank battery will be located near the Manenti 20-54 well site

6. Construction:

Date planned to commence construction: 10/31/2011 Size of disturbed area during construction in acres: 2.50
Estimated date that interim reclamation will begin: 12/15/2011 Size of location after interim reclamation in acres: 0.50
Estimated post-construction ground elevation: 4939 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: WMP #425490

7. Surface Owner:

Name: _____ Phone: _____
Address: _____ Fax: _____
Address: _____ Email: _____
City: _____ State: _____ Zip: _____ Date of Rule 306 surface owner consultation: 04/28/2011
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: 446, public road: 667, above ground utilit: 634
, railroad: 8818, property line: 223

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: 65, Thedalund loam, 3 to 9 percent slopes

NRCS Map Unit Name: 32, Kim loam, 1 to 3 percent slopes

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: 240, water well: 1225, depth to ground water: 8

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 Suppl 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:

Nearest water well permit #13965-R-R is approximately 1225' SW of proposed location This amendment adds one well to an existing well location pad. Ref. Waste Management Plan #425490

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

Signed: _____ Date: 10/04/2011 Email: lpfizenmaier@gwogco.com

Print Name: Lisa Pfizenmaier Title: Permitting Technician

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. Nashin Director of COGCC Date: 10/28/2011

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.

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Attachment Check List

| Att Doc Num | Name |
|-------------|-----------------------|
| 2613858 | WASTE MANAGEMENT PLAN |
| 400211369 | FORM 2A SUBMITTED |
| 400211372 | MULTI-WELL PLAN |
| 400211432 | WASTE MANAGEMENT PLAN |

Total Attach: 4 Files

General Comments

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u> |
|-------------------|--|---------------------------|
| Permit | Final Review Completed. No LGD or public comment received. | 10/28/2011 2:57:03 PM |
| Permit | Sundry notice to abandon the Wiedeman 20-34 (API#123-28139) received and approved 10/24/11. Reference well is the Wiedeman 20-44. SHL is correct. | 10/28/2011 2:48:56 PM |
| Permit | E-mailed opr-Lisa requesting the form 4 abandonment of the Weideman well that is directly where the BHL of this well is plotted. 2nd request. | 10/20/2011 3:59:06 PM |
| OGLA | Attached Waste Management Plan from operator; Ready to Pass 10/26/2011. | 10/20/2011 10:37:12 AM |
| OGLA | Received call from operator regarding status of submittals. | 10/14/2011 12:39:33 PM |
| Permit | Form 4 to abandon the Weideman 20-34 not in system yet. Opr notified that they will need water sampling (COA) Distances on forms are different. Checking with Opr. | 10/11/2011 4:17:32 PM |
| Permit | Returned to draft. Missing WMP. | 10/5/2011 7:38:45 AM |
| Permit | Returned to draft. Missing WMP. | 10/5/2011 7:21:27 AM |

Total: 8 comment(s)

BMP

| <u>Type</u> | <u>Comment</u> |
|-------------|----------------|
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Total: 0 comment(s)