

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



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Document Number:  
400187411

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:  
**424916**  
Expiration Date:  
**08/20/2014**

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: 10261  
Name: BAYSWATER EXPLORATION AND PRODUCTION LLC  
Address: 730 17TH ST STE 610  
City: DENVER State: CO Zip: 80202

3. Contact Information

Name: Kallasandra Moran  
Phone: (303) 928-7128  
Fax: (303) 962-6237  
email: kmoran@petro-fs.com

4. Location Identification:

Name: Bears Number: 5-30  
County: WELD  
Quarter: SWNW Section: 30 Township: 7N Range: 66W Meridian: 6 Ground Elevation: 4972

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: 2008 feet FNL, from North or South section line, and 718 feet FWL, from East or West section line.  
Latitude: 40.547044 Longitude: -104.829409 PDOP Reading: 1.5 Date of Measurement: 05/18/2011  
Instrument Operator's Name: L.K. Stevenson/ PFS

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

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

Other: \_\_\_\_\_

6. Construction:

Date planned to commence construction: 09/01/2011 Size of disturbed area during construction in acres: 1.37  
 Estimated date that interim reclamation will begin: 03/16/2012 Size of location after interim reclamation in acres: 0.25  
 Estimated post-construction ground elevation: 4972 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: 20080034  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: 1692, public road: 2008, above ground utilit: 714  
 , railroad: 5280, property line: 718

**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 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: 32- Kim Loam, 1 to 3 Percent Slopes

NRCS Map Unit Name: \_\_\_\_\_  
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: 462, water well: 1705, depth to ground water: 36  
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:

The closest water well is an Unnamed well owned by Beuce Johnson (Permit # 280011A/Receipt #3636795B), no depth to ground water data available for this well. The closest well with depth to ground water data available is 2802' from proposed well and is an Unnamed well owned by Nelson Hollar. (Permit # 11152R/Receipt # 9060587). I certify that there have been no changes on land use, lease description. Pad has not been built. Wells have not been drilled. Conductors have not been set. No rig on site. Facilities for this well are located offsite, please reference Bear 5-30 form 2A (doc #400187575).

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

Signed: \_\_\_\_\_ Date: 07/25/2011 Email: kmoran@petro-fs.com

Print Name: Kallasandra M. Moran Title: Regulatory 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. Nashin Director of COGCC Date: 8/21/2011

**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.**

Operator must submit a Waste Management Plan meeting the general requirements of Rule 907.a. for the land application of drill cuttings. Submit the Waste Management Plan on a Form 4 Sundry Notice via email to ogccenvirosundry@state.co.us.

**Attachment Check List**

| Att Doc Num | Name               |
|-------------|--------------------|
| 400187411   | FORM 2A SUBMITTED  |
| 400187471   | LOCATION DRAWING   |
| 400187473   | LOCATION PICTURES  |
| 400187474   | HYDROLOGY MAP      |
| 400187475   | ACCESS ROAD MAP    |
| 400187479   | NRCS MAP UNIT DESC |
| 400187481   | OTHER              |

Total Attach: 7 Files

**General Comments**

| <b><u>User Group</u></b> | <b><u>Comment</u></b>  | <b><u>Comment Date</u></b> |
|--------------------------|--|----------------------------|
| OGLA                     | Applied COA with operator concurrence; OGLA task passed.   | 8/16/2011<br>4:06:41 PM    |
| OGLA                     | Changed distance to nearest water well from 2997 feet to 1705 feet (water well permit no. 280011); changed sensitive area designation to Yes - Location is in a sensitive area due to the likely presence of shallow ground water; operator is drilling with a closed loop system. | 7/28/2011<br>1:50:34 PM    |

Total: 2 comment(s)

## BMP

| <u>Type</u>                    | <u>Comment</u>  |
|--------------------------------|---|
| Final Reclamation              | All surface restoration shall be accomplished to the satisfaction of Owner.<br>All reseeding shall be done with grasses consistent with the Rocky Mountain native mix or other grasses reasonably requested by surface owner and during planting period suggested by Owner.<br>Final reclamation shall be completed to the reasonable satisfaction of the Owner as soon as practical after installation (weather permitting) and in accordance with regulatory agency standards (BLM/COGCC).  |
| Drilling/Completion Operations | Use a closed-loop drilling mud system to preclude the use of an earthen reserve pits when available.  |
| Storm Water/Erosion Control    | Use water bars, and other measures to prevent erosion and non-source pollution.<br>Implement and maintain BMPs to control stormwater runoff in a manner that minimizes erosion, transport of sediment offsite, and site degradation.<br>Co-locate gas and water gathering lines whenever feasible, and mitigate any erosion problems that arise due to the construction of any pipeline(s).   |
| Construction                   | Remove only the minimum amount of vegetation necessary for the construction of roads and facilities.<br>Conserve topsoil during excavation and reuse as cover on disturbed areas to facilitate regrowth of vegetation.<br>No construction or routine maintenance activities will be performed during periods when the soil is too wet to adequately support construction equipment.   |
| Planning                       | When feasible develop multiple well sites by using directional drilling to reduce cumulative impacts and adverse impacts on wildlife resources.   |
| Site Specific                  | Fence the well site after drilling to restrict public and wildlife access.<br>Keep well site location, the road, and the pipeline easement free of noxious weeds, litter and debris.<br>Spray for noxious weeds, and implement dust control, as needed.<br>Bayswater Exploration and Production, LLC will not permit the release or discharge of any toxic or hazardous chemicals or wastes on Owner's Land.<br>Construct and maintain gates where any roads used by Bayswater Exploration and Production, LLC cross through fences on the leased premises. |
| Interim Reclamation            | Utilize only such area around each producing well as is reasonably necessary.<br>Restore the remainder of the well site location to its original condition within a reasonable time after the completion of operations.<br>All reseeding shall be done with grasses consistent with the Rocky Mountain native mix or other grasses reasonably requested by surface owner and during planting period suggested by Owner.   |

Total: 7 comment(s)