

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:

400522515

Date Received:

02/18/2014

Oil and Gas Location Assessment

☐ New Location ☐ Refile ☒ Amend Existing Location Location#: 434056

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:

434056

Expiration Date:

03/20/2017

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

Contact Information

Name: Sonia Stephens
Phone: (303) 928-7128
Fax: ()
email: regulatory@petro-fs.com

RECLAMATION FINANCIAL ASSURANCE

☒ Plugging and Abandonment Bond Surety ID: 20080034 ☐ Gas Facility Surety ID: _____
☐ Waste Management Surety ID: _____

LOCATION IDENTIFICATION

Name: Hirsch Pad Number: 24-G
County: WELD
QuarterQuarter: SENW Section: 24 Township: 7N Range: 67W Meridian: 6 Ground Elevation: 5035
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: 1486 feet FNL from North or South section line
2508 feet FWL from East or West section line
Latitude: 40.562857 Longitude: -104.841838
PDOP Reading: 2.1 Date of Measurement: 05/23/2013
Instrument Operator's Name: Alan Hznida

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>3</u>	Oil Tanks	<u>4</u>	Condensate Tanks	<u> </u>	Water Tanks	<u>2</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>2</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>4</u>	Flare	<u> </u>	LACT Unit	<u> </u>
								Pigging Station	<u> </u>

OTHER FACILITIES

Other Facility Type

Number

<u> </u>	<u> </u>
---------------	---------------

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

2 - 2" steel line to carry oil, gas, water
1 - 1" poly low pressure supply gas line

CONSTRUCTION

Date planned to commence construction: 04/01/2014 Size of disturbed area during construction in acres: 1.71
Estimated date that interim reclamation will begin: 09/01/2014 Size of location after interim reclamation in acres: 0.58
Estimated post-construction ground elevation: 5035

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:

Bayswater Reeves Mud Field Facility # 435839 Waste Management Plan attached

Beneficial reuse or land application plan submitted?

Reuse Facility ID: or Document Number:

Centralized E&P Waste Management Facility ID, if applicable:

SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: Jacob W. Hirsch III

Phone:

Address: 11238 CR 78

Fax: _____

Address: _____

Email: _____

City: Eaton State: CO Zip: 80615

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: Yes

The right to construct this Oil and Gas Location is granted by: oil and gas lease

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: 622 Feet
Building Unit: 817 Feet
High Occupancy Building Unit: 5280 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 1334 Feet
Above Ground Utility: 455 Feet
Railroad: 5280 Feet
Property Line: 15 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: 01/16/2014

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: 52- Otero sandy Loam, 3 to 5 % slope

NRCS Map Unit Name: 37 - Nelson fine sandy loam, 0-3 % slopes

NRCS Map Unit Name: 38 - Nelson fine sandy loam, 3-9 % slopes

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: 181 Feet

water well: 1531 Feet

Estimated depth to ground water at Oil and Gas Location 11 Feet

Basis for depth to groundwater and sensitive area determination:

DWR - water well is #285580, closest surface water is a concrete ditch.

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

Operator is amending this existing 2A to add facilities.

Pre Application notices to Surface owner, Building Unit Owners mailed 01/16/2014. Copies of proof of delivery attached per Rule 303.b.(3) J iii
Mountain View Lamb Feeders, Inc agrees to the Hirsch 24-G facility being constructed within the setback distance from the property line, as long as Bayswater does not place any equipment closer than fifteen (15) feet to property line.
Mountain View Lamb Feeders has executed the waiver concerning COGCC Rule 605.a(2) location of the tanks and distance to the property. The signed waiver is attached.

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

Signed: _____ Date: 02/18/2014 Email: regulatory@petro-fs.com

Print Name: Sonia Stephens Title: Regulatory 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:  Director of COGCC Date: 3/21/2014

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.

<u>COA Type</u>	<u>Description</u>
	Operator must implement site-specific best management practices in accordance with good engineering practices, including, but not limited to, construction of a berm or diversion dike, site grading, or other comparable measures, sufficient to protect the concrete ditch 181 feet and 204 feet northwest and the pond located 248 feet northeast of the oil and gas location from a release of drilling, completion, produced fluids, and chemical products.

Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>
1	Planning	Pursuant to COGCC 207.a. ("Policy"), Bayswater Exploration & Production, LLC, acknowledges and will comply with said policy for Bradenhead Monitoring during hydraulic fracturing treatments in the Greater Wattenberg Area (GWA), dated May 29, 2012.
2	Planning	Anti-collision: Prior to drilling operations, Operator will perform an anti-collision scan of existing offset wells that have the potential of being within close proximity of the proposed well. This anti-collision scan will include definitive MWD or gyro surveys of the offset wells with included error of uncertainty per survey instrument, and compared against the proposed well path with its respective error of uncertainty. If current surveys do not exist for the offset wells, Operator may have gyro surveys conducted to verify bottom hole location. The proposed well will only be drilled if the anti-collision scan results indicate that there is not a risk for collision, or harm to people or the environment. For the proposed well, upon conclusion of drilling operations, an as-constructed gyro survey will be submitted to COGCC with the Form 5.
3	Planning	The production facility will be painted in accordance with the COGCC Visual Mitigation Rule 804. All long term facility structures will be painted a color that enables the facilities to blend in with the natural background color of the landscape, as seen from a viewing distance and location typically used by the public. Maintain appearance with garbage clean-up; a trash bin will be located on site to accumulate waste by the personnel drilling the wells. Site will remove unused equipment, trash and junk immediately.
4	Planning	Light sources during all phases of operations will be directed downwards and away from occupied structures where possible. Once the drilling and completion rigs leave the site, there will be no permanently installed lighting on site. Lighting shall be mounted at compressor station on a pole or building and directed downward to illuminate key areas within the facility, while minimizing the amount of light projected outside the facility.
5	Planning	When feasible develop multiple well sites by using directional drilling to reduce cumulative impacts and adverse impacts on wildlife resources.

6	Planning	A closed-loop drilling mud system will be used to preclude the use of an earthen reserve pit. Light Sources will likewise be directed downwards and away from occupied structures where possible. Once the drilling and completion rigs leave the site, there will be no permanently installed lighting on site.
7	Traffic control	A traffic and access plan has been coordinated with the Weld County prior to commencement of construction and drilling operations.
8	General Housekeeping	The pumper will visit the location daily to visually monitor the production facilities for leaks.
9	General Housekeeping	Fence the well site after drilling to restrict public and wildlife access. Keep well site location, the road, and the pipeline easement free of noxious weeds, litter and debris. Spray for noxious weeds, and implement dust control, as needed. Operator will not permit the release or discharge of any toxic or hazardous chemicals or wastes on Owners's Land. Construct and maintain gates where any any roads used by operator, its employeeed, or contractors cross through fences on the leased premises.
10	Storm Water/Erosion Control	Use water bars 12 to 18 inches deep to prevent erosion and non-source pollution. Implement and maintain BMPs to control storm water runoff in a manner that minimizes erosion, transport of sediment offsite, and site degradation. Apply biodegradable mulch, netting or soil stabilizers. Avoid areas on the site with high erosion potential. Implement and maintain surface runoffs and erosion control on drill site, access road and right-of way. Co-locate gas and water gathering lines whenever feasible, and mitigate any erosion problems that arise due to the construction of pipelines. Sloping, grading and vegetation cover shall be used to minimize erosion.
11	Noise mitigation	Operations will be subject to the maximum permissible noise levels of 55 db, as measured at the nearest Building Unit. Light sources will be directed downwards and away from occupied Building Units when possible. There will be no permanently installed lighting on site.
12	Interim Reclamation	Utilize only such area around each producing well as is reasonably necessary. Perform site inventory and analysis; consider reclamation prior to drilling activity. Inventory soil and vegetation species. An established weed control plan will be scheduled throughout the project. Apply local native grass seed and mulch to erosive soil areas or closed road surfaces. 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 surface owner. Commence reclamation of disturbed surfaces prior to November 1st each year. All disturbed areas shall be kept reasonably free of noxious weeds and undesirable species as practicable.
13	Final Reclamation	All tanks and equipment, lines and well site roads will be removed from the entire well site. All reseeding shall be done with grasses consistent with the Rocky Mountain native mix or other grasses reasonably requested by the surface owner and during planting period suggested by owner. All surface restoration shall be accomplished and completed to the reasonable satisfaction of the surface owner, as soon as practical after installation (weather permitting), and in accordance with regulatory agencies' standards.

Total: 13 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
1668147	LOCATION DRAWING
1668148	HYDROLOGY MAP
1668152	BUFFER ZONE MAP
1668232	RULE 306.E. CERTIFICATION
1668233	CORRESPONDENCE
400522515	FORM 2A SUBMITTED
400556074	LOCATION PICTURES
400556075	ACCESS ROAD MAP
400556386	OTHER
400556391	WAIVERS
400556682	FACILITY LAYOUT DRAWING
400557183	NRCS MAP UNIT DESC

Total Attach: 12 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Fianl review complete.	3/18/2014 7:48:04 AM
OGLA	Operator provided Rule 306.e. Certification Letter. OGLA review complete and task passed.	3/13/2014 1:23:50 PM
OGLA	Public Comment period ended and no Public Comments received. Requested operator submit a letter certifying compliance with Rule 306.e. requirements (Meetings with Building Unit Owners).	3/12/2014 2:36:11 PM
OGLA	Site Visit conducted on 3/6/14. Location is adjacent to a large active sheep farming operation.	3/11/2014 10:01:25 AM
OGLA	Operator provided correct Location Drawing, Hydrology Map, pipeline description, Buffer Zone Map and agreed to change distance to nearest Property Line to 15 feet to match Waiver. Waiting on Public Comment period.	2/28/2014 1:05:02 PM
Permit	Requesting correct Location drawing and hydrology map. Removed surface bond and statement regarding the abandonment of previous location Doc 400541810, as per opr.	2/27/2014 9:56:49 AM
Permit	Passed completeness.	2/19/2014 10:50:37 AM
Permit	Returned to draft: NRCS Map Unit Name in Soil & Plant Community tab does not match the attached NRCS Map Unit Description.	2/19/2014 9:08:45 AM

Total: 8 comment(s)