

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:

400100217

## Oil and Gas Location Assessment

☐ New Location
 ☒ Amend Existing Location
 Location#: 326505

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 stand alone 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:

**326505**

Expiration Date:

**12/04/2013**☒ 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: 10000

Name: BP AMERICA PRODUCTION COMPANY

Address: 501 WESTLAKE PARK BLVD

City: HOUSTON State: TX Zip: 77079

## 3. Contact Information

Name: Susan Folk

Phone: (970) 335-3828

Fax: (970) 335-3837

email: susan.folk@bp.com

## 4. Location Identification:

Name: Tinker GU 02-09 Number: 4

County: LA PLATA

Quarter: SWNE Section: 9 Township: 34N Range: 8W Meridian: M Ground Elevation: 6825

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: 1436 feet FNL, from North or South section line, and 1623 feet FEL, from East or West section line.

Latitude: 37.233040 Longitude: -107.747470 PDOP Reading: 1.8 Date of Measurement: 10/16/2008

Instrument Operator's Name: Bill Mitchell

## 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" value="1"/>	Wells: <input type="text" value="2"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text"/>	Water Tanks: <input type="text" value="1"/>	Separators: <input type="text" value="2"/>	Electric Motors: <input type="text" value="3"/>	Multi-Well Pits: <input type="text"/>
Gas or Diesel Motors: <input type="text" value="2"/>	Cavity Pumps: <input type="text" value="2"/>	LACT Unit: <input type="text"/>	Pump Jacks: <input type="text" value="2"/>	Pigging Station: <input type="text"/>
Electric Generators: <input type="text" value="1"/>	Gas Pipeline: <input type="text" value="1"/>	Oil Pipeline: <input type="text"/>	Water Pipeline: <input type="text" value="1"/>	Flare: <input type="text"/>
Gas Compressors: <input type="text" value="1"/>	VOC Combustor: <input type="text"/>	Oil Tanks: <input type="text"/>	Fuel Tanks: <input type="text"/>	

Other: Electric Control Box-1 Linear Rod Pumps-2 Meter-1 Pre-existing well with associated equipment on site included in numbers above.

## 6. Construction:

Date planned to commence construction: 06/01/2011 Size of disturbed area during construction in acres: 1.86  
Estimated date that interim reclamation will begin: 06/01/2012 Size of location after interim reclamation in acres: 1.11  
Estimated post-construction ground elevation: 6825 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: Recycle/Reuse

## 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: 20010158 ☐ 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: 1104, public road: 904, above ground utilit: 245  
, railroad: 41196, property line: 310

## 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: 5. Arboles Clay, 3 -12 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: Western wheatgrass, Big basin sagebrush, Indian ricegrass, Prairie junegrass, Muttongrass, Blue grama, Bottlebrush, Squirreltail, Rubber rabbitbrush, Pinyon, Rocky Mountain Juniper

Check all plant communities that exist in the disturbed area.

- ☐ Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye)  
☒ Native Grassland (Bluestern, 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: 0, water well: 835, depth to ground water: 30

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:

6. Size of disturbed area during construction includes new and existing disturbance. 11. Reference Area Photos taken during growing season will be submitted within 12 months of application. 13. Noxious weeds are controlled by ongoing weed control program. 14. Sensitive Area Determination Data: Distance to nearest surface water will be 0' as an intermittent stream will be temporarily piped under the pad. Next closest surface water is a ditch at 54'. Due to close proximity to surface water the area is determined to be sensitive.

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

Signed: \_\_\_\_\_ Date: 10/14/2010 Email: susan.folk@bp.com

Print Name: Susan Folk Title: Infill Permit Coordinator

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved.

*David S. Neslin*

COGCC Approved: \_\_\_\_\_

Director of COGCC

Date: 12/5/2010

**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.**

Location is in a sensitive area because of its proximity to surface water; therefore, operator must ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations; potential option include, but are not limited to: construction of a berm or diversion dike (either around the entire well pad, portions of the well pad, or around specific vessels and/or structures); diversion/collection trenches within and/or outside of berms/dikes; site grading; or other comparable measures (i.e., BMPs associated with stormwater management) sufficiently protective of nearby surface water.

The moisture content of any drill cuttings in a cuttings pit, trench, or pile shall be as low as practicable to prevent accumulation of liquids greater than de minimis amounts. At the time of closure, the drill cuttings must also meet the applicable standards of table 910-1, with the following exceptions where applicable: COGCC and CDPHE have decided that operators do not need to request variances from CDPHE for instances where pit contents do not meet the Table 910 -1 values for pH, electrical conductivity (EC), or sodium adsorption ration (SAR). However, operators shall attempt, where practicable, to meet the pH, EC, and SAR values, but must ensure that the remaining pit contents are covered with a minimum of 3 feet of backfill and soil. The soil horizons must be replaced in their original relative position, and reclaimed in accordance with the 1000 Series Rules. The backfill and replaced soil must meet Table 910-1 ph, EC, and SAR values, with consideration given to background levels in native soils.

Location is in a sensitive area because of the potential for shallow groundwater; therefore production pits must be lined.

Location is in a sensitive area because of the potential for shallow groundwater; therefore either a lined drilling pit or a closed loop system (which BP has already indicated on the Form 2A) must be implemented.

Operator must implement best management practices to contain any unintentional release of fluids, including any fluids conveyed via temporary surface pipelines.

### Attachment Check List

Att Doc Num	Name
2033517	CORRESPONDENCE
400100217	FORM 2A SUBMITTED
400100219	LOCATION PICTURES
400100220	LOCATION PICTURES
400100221	LOCATION PICTURES
400100222	LOCATION PICTURES
400100223	LOCATION DRAWING
400100225	SURFACE PLAN
400100226	HYDROLOGY MAP
400100227	ACCESS ROAD MAP
400100228	REFERENCE AREA MAP
400100229	NRCS MAP UNIT DESC
400100230	CONST. LAYOUT DRAWINGS
400100231	CONST. LAYOUT DRAWINGS
400100232	CONST. LAYOUT DRAWINGS
400100235	CONST. LAYOUT DRAWINGS
400100237	MULTI-WELL PLAN
400100239	PROPOSED BMPs

Total Attach: 18 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	PERMITTING PASSED JLV	10/29/2010 2:18:16 PM
DOW	This location will be included under the BP/CDOW WMP. Efforts to avoid, minimize, and mitigate impacts to wildlife resources will be implemented at this location once the WMP is finalized.	10/22/2010 11:42:14 AM
OGLA	Initiated/Completed OGLA Form 2A review on 10-21-10 by Dave Kubeczko; requested clarifications and acknowledgement of fluid containment, spill/release BMPs, lined pits/closed loop, cuttings low moisture content, stormwater BMP COAs from operator on 10-21-10; received clarifications and acknowledgement of COAs from operator on 12-02-10; passed by CDOW on 11-24-10, with operator submitted BMPs (with permit application) acceptable, also part of the WMP between BP and CDOW; passed OGLA Form 2A review on 12-02-10 by Dave Kubeczko; fluid containment, spill/release BMPs, lined pits/closed loop, cuttings low moisture content, stormwater BMP COAs.	10/21/2010 1:25:24 PM

Total: 3 comment(s)

### BMP

<u>Type</u>	<u>Comment</u>

Total: 0 comment(s)