

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:  
400114023

**Oil and Gas Location Assessment**

New Location       Amend Existing Location      Location#: 325643

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:  
**325643**  
Expiration Date:  
**01/24/2014**

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: 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: Dekay GU A Number: 4  
County: LA PLATA  
Quarter: NENE Section: 23 Township: 33N Range: 8W Meridian: N Ground Elevation: 6675  
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: 1161 feet FNL, from North or South section line, and 1013 feet FEL, from East or West section line.  
Latitude: 37.093550 Longitude: -107.681000 PDOP Reading: 2.1 Date of Measurement: 03/13/2009  
Instrument Operator's Name: Gary Olbert

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

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

6. Construction:

Date planned to commence construction: 09/02/2011 Size of disturbed area during construction in acres: 1.80
Estimated date that interim reclamation will begin: 09/02/2012 Size of location after interim reclamation in acres: 1.07
Estimated post-construction ground elevation: 6676 Will a closed loop system be used for drilling fluids: Yes [X]
Will salt sections be encountered during drilling: Yes [ ] No [X] Is H2S anticipated? Yes [ ] No [X]
Will salt (>15,000 ppm TDS Cl) or oil based muds be used: Yes [ ] No [X]
Mud disposal: Offsite [ ] Onsite [X] 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: [X] Fee [ ] State [ ] Federal [ ] Indian
Mineral Owner: [X] 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 [X] 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:

[X] 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 [X]
Distance, in feet, to nearest building: 1457 , public road: 1199 , above ground utilit: 162
, railroad: 86277 , property line: 1017

10. Current Land Use (Check all that apply):

Crop Land: [ ] Irrigated [ ] Dry land [ ] Improved Pasture [ ] Hay Meadow [ ] CRP
Non-Crop Land: [X] 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 [X] 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: Zyme Clay Loam, 3 to 25 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: Pinyon, RockyMtnJuniper, IndianRicegrass, Basinbig sagebrush, Westernwheatgrass, Truemountain mahogany, GambelOak, Needleandthread, Serviceberry, Antelopebitterbrush, Muttongrass

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: 1000, water well: 1025, depth to ground water: 119

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:

6. Size of distrubed area during construction includes new and existing disturbamce. 13. Noxious weeds are controlled by ongoing weed control plan. 14. Sensitive Area Determination Data: Area determined to not be sensitive as nearby surface water is not present; greater than 100' to groundwater

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

Signed: \_\_\_\_\_ Date: 12/06/2010 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: 1/25/2011

**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.**

Reserve pit (if constructed) must be lined or closed loop system (which BP has indicated on the Form 2A) must be implemented during drilling. Any other pit constructed (frac pit) must be lined.

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

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, the the , 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.

**Attachment Check List**

Att Doc Num	Name
2033571	CORRESPONDENCE
2033575	PROPOSED BMPs
2586468	LOCATION DRAWING
400114023	FORM 2A SUBMITTED
400114042	LOCATION PICTURES
400114043	LOCATION PICTURES
400114051	LOCATION PICTURES
400114052	LOCATION DRAWING
400114054	SURFACE PLAN
400114055	HYDROLOGY MAP
400114056	ACCESS ROAD MAP
400114058	NRCS MAP UNIT DESC
400114059	CONST. LAYOUT DRAWINGS
400114060	CONST. LAYOUT DRAWINGS
400114061	CONST. LAYOUT DRAWINGS
400114062	CONST. LAYOUT DRAWINGS
400114063	MULTI-WELL PLAN
400114065	PROPOSED BMPs
400114069	LOCATION PICTURES

Total Attach: 19 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
DOW	•Bp has submitted bmps that are included in the draft wildlife mitigation Plan. In addition CDOW would requests that a“Pre-construction biological surveys and compliance with CDOW raptor nest buffer guidelines” bmp to this location. This is also a standard bmp that bp will implement upon completion of the WMP. These BMPs reduce, but do not eliminate the impacts to wildlife resources associated with each new facility. The WMP intent is to target actions to offset much of the residual impact to wildlife that bmps alone cannot address.	1/14/2011 4:49:09 PM
OGLA	Initiated/Completed OGLA Form 2A review on 12-21-10 by Dave Kubeczko; requested acknowledgement of spill/release BMPs, closed loop/lined pit, and cuttings low moisture content COAs from operator on 12-21-10; received acknowledgement of COAs from operator on 01-05-10; passed by CDOW on 01-14-11 with operator submitted BMPs (with permit application) and additional BMPs from CDOW onsite of 01-04-11 acceptable; passed OGLA Form 2A review on 01-15-11 by Dave Kubeczko; spill/release BMPs, closed loop/lined pit, and cuttings low moisture content COAs.	1/3/2011 12:58:39 PM
Permit	PERMITTING PASSED- JLV	12/21/2010 2:38:00 PM
Permit	Called Operator to dicuss distance to above ground utlity not on the attached location drawing. Operator sent a revised location drawing illustrating the powerline. JLV	12/21/2010 9:32:31 AM

Total: 4 comment(s)

**BMP**

<b><u>Type</u></b>	<b><u>Comment</u></b>
Wildlife	Produced water gathering system - Each new facility is tied into a field-wide produced water gathering system for water disposal. This water gathering system results in a significant reduction in truck traffic and consolidation of water handling facilities
Wildlife	Use of multiple well pad sites - The use of multiple well pad sites results in a reduction of heavy equipment on road traffic due to fewer rig mobilizations and de-mobilizations, and reduces overall habitat fragmentation
Wildlife	Well automation systems - BP's well automation system reduces on road truck traffic for the purpose of operating individual well sites and limits human presence on locations once drilling and completion has taken place
Interim Reclamation	Use of wildlife friendly seed mixes - BP has and will continue to use habitat specific wildlife friendly seed mix for interim remediation of well pad, pipe line right of way and areas adjacent to non-well locations; Ecotype: Pinyon/Juniper Woodlands-Sagebrush mix at the site
Wildlife	Closed loop pitless drilling systems - BP's pitless drilling system eliminates the need for a reserve pit to store fluid and drill cuttings during drilling and completion that would present a risk to wildlife should they enter the pit; it also greatly reduces the number of truck visits to the location after drilling is complete for the purpose of removing standing liquids from the pit

Total: 5 comment(s)