

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



DE ET OE ES

Document Number:
400200822

Oil and Gas Location Assessment

New Location Amend Existing Location Location#: 385923

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:
385923
Expiration Date:
11/22/2014

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: Patti Campbell
Phone: (970) 335-3828
Fax: (970) 335-3837
email: patricia.campbell@bp.com

4. Location Identification:

Name: Witt GU 34-23 Number: 2 & 4
County: LA PLATA
Quarter: SESW Section: 23 Township: 34N Range: 8W Meridian: M Ground Elevation: 6678

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: 1224 feet FSL, from North or South section line, and 2503 feet FWL, from East or West section line.
Latitude: 37.172760 Longitude: -107.687080 PDOP Reading: 2.2 Date of Measurement: 04/27/2011
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" value="0"/>	Drilling Pits: <input type="text" value="1"/>	Wells: <input type="text" value="2"/>	Production Pits: <input type="text" value="0"/>	Dehydrator Units: <input type="text" value="0"/>
Condensate Tanks: <input type="text" value="0"/>	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" value="0"/>
Gas or Diesel Motors: <input type="text" value="2"/>	Cavity Pumps: <input type="text" value="2"/>	LACT Unit: <input type="text" value="0"/>	Pump Jacks: <input type="text" value="2"/>	Pigging Station: <input type="text" value="0"/>
Electric Generators: <input type="text" value="1"/>	Gas Pipeline: <input type="text" value="1"/>	Oil Pipeline: <input type="text" value="0"/>	Water Pipeline: <input type="text" value="1"/>	Flare: <input type="text" value="0"/>
Gas Compressors: <input type="text" value="1"/>	VOC Combustor: <input type="text" value="0"/>	Oil Tanks: <input type="text" value="0"/>	Fuel Tanks: <input type="text" value="0"/>	

Other: Electric Control Box -1; Two proposed wells and associated equipment onsite included in numbers above.

6. Construction:

Date planned to commence construction: 06/29/2012 Size of disturbed area during construction in acres: 1.60
 Estimated date that interim reclamation will begin: 06/29/2013 Size of location after interim reclamation in acres: 1.07
 Estimated post-construction ground elevation: 6678 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: 654, public road: 1168, above ground utilit: 891
 , railroad: 66595, property line: 74

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: 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: _____

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: 43, water well: 157, depth to ground water: 15
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:

1. DOW consultation is via the BP San Juan Basin Colorado Wildlife Mitigation Plan (WMP) dated March 2011;6. Size of disturbed area during constuction is for a new 2 well pad; 7. SUA attached to related Form 2 contains waiver to the 30 day notice (Rule 305) and consultation (Rule 306); 13. Noxious weeds are controlled by an ongoing weed control plan; 14. Sensitive Area Determination Data: Area determined to be sensitive due to multiple nearby irrigation ditches and a water well at 157 feet. The proposed wellheads have been moved from the previously filed location as described in the associated Form 2s resulting in an exception to Rule 603a(2). A letter to the Director and landowner waiver are attached to the associated Form 2s.

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

Signed: _____ Date: 09/06/2011 Email: patricia.campbell@bp.com

Print Name: Patricia Campbell 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: 11/23/2011

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.

SITE SPECIFIC COAs:

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

Any pit constructed to hold liquids, must be lined or a closed loop system (which operator has indicated on the Form 2A) must be implemented during drilling.

Operator must ensure 110 percent secondary containment for any volume of fluids (excluding freshwater) contained at well site during drilling and completion operations; including, but not limited to, construction of a berm or diversion dike, diversion/collection trenches within and/or outside of berms/dikes, site grading, or other comparable measures (i.e., best management practices (BMPs) associated with stormwater management) sufficiently protective of nearby surface water. Any berm constructed at the well pad location will be stabilized, inspected at regular intervals (at least every 14 days), and maintained in good condition.

Flowback and stimulation fluids must be sent to tanks, separators, or other containment/filtering equipment before the fluids can be placed into any pipeline or pit located on the well pad or into tanker trucks for offsite disposal. The flowback and stimulation fluid tanks, separators, or other containment/filtering equipment must be placed on the well pad in an area with additional downgradient perimeter berming. The area where flowback fluids will be stored/reused must be constructed to be sufficiently impervious to contain any spilled or released material.

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.

Attachment Check List

Att Doc Num	Name
2034031	CORRESPONDENCE
400200822	FORM 2A SUBMITTED
400202760	LOCATION PICTURES
400202774	LOCATION DRAWING
400202777	SURFACE PLAN
400202779	HYDROLOGY MAP
400202780	ACCESS ROAD MAP
400202782	REFERENCE AREA MAP
400202785	REFERENCE AREA PICTURES
400202787	NRCS MAP UNIT DESC
400202791	CONST. LAYOUT DRAWINGS
400202797	CONST. LAYOUT DRAWINGS
400202798	CONST. LAYOUT DRAWINGS
400202801	CONST. LAYOUT DRAWINGS
400202803	MULTI-WELL PLAN
400202804	PROPOSED BMPs

Total Attach: 16 Files

General Comments

User Group	Comment	Comment Date
Permit	Final review completed. BY	11/23/2011 12:10:01 PM
Permit	You are correct, please change the measurement from lease line to 500'. Thank you, Patti Campbell	11/23/2011 12:09:20 PM
Permit	Distance to nearest property line is in question. Spoke with Patti Campbell and she will review and clarify. BY	10/26/2011 10:43:57 AM
OGLA	Initiated/Completed OGLA Form 2A review on 09-19-11 by Dave Kubeczko; requested acknowledgement of fluid containment, spill/release BMPs, lined pits/closed loop, flowback to tanks, and cuttings low moisture content COAs from operator on 09-19-11; received acknowledgement of COAs from operator on 09-20-11; passed by CDOW on 09-06-11 with site included in WMP acceptable; passed OGLA Form 2A review on 10-07-11 by Dave Kubeczko; fluid containment, spill/release BMPs, lined pits/closed loop, flowback to tanks, and cuttings low moisture content COAs.	9/19/2011 12:38:34 PM
DOW	This location is in Mule deer Critical Winter Range SWH. This facility is covered under the CPW/BP Wildlife Mitigation Plan.	9/6/2011 1:11:52 PM

Total: 5 comment(s)

BMP

<u>Type</u>	<u>Comment</u>
Interim Reclamation	<ul style="list-style-type: none"> o Reclaim cut/fill slopes to 3:1 or less. Use excess spoil material as initial reclamation of cut slopes. o Trench and bury remaining drill cuttings when material is 95-100% dry. o Spread top-soil over fill slopes & blend to existing grade areas where sloping meets predisturbance grade. o Repair, replace, or install pad wattles if necessary or as shown. o Re-seed as soon as possible following reclamation of pad-provided season and weather permits and cover with 2 tons/acre of weed free straw mulch. Tackify or crimp the mulch to the exposed soil surfaces. <ul style="list-style-type: none"> o Cut/Fill Slopes & Top-Soil Storage Area. o Seed mix should implement an annual cover or triticale. o Seed Mixture = G-P o Upon 70% Re-Vegetation across site, remove wattles and any other temporary erosion and sediment control BMP.
Wildlife	Covered in the BP San Juan Wildlife Mitigation Plan (WMP) dated March 2011.
Drilling/Completion Operations	<p>Construction of a natural gas well pad ~260' x 195' & construction of access road.</p> <ul style="list-style-type: none"> o Fuel, Mud Products, drill cutting spoils, Trailer Septic Tanks, etc. that may contribute to storm water run-off shall be maintained within the graveled well pad area and contained in proper containers and/or sheltered from exposure. o Any equipment maintenance shall be avoided during drilling and completion—in the event maintenance must occur, it shall be conducted within the graveled pad area, fluids shall be captured within spill proof containers, and absorbent mats shall be utilized beneath maintenance operations. o Contaminated soil should be collected and disposed of at an appropriate soil farm or similar facility
Storm Water/Erosion Control	Covered in the field wide Storm Water Management Plan. Supplemental SWMP is attached.

Total: 4 comment(s)