

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:

401550164

(SUBMITTED)

Date Received:

02/27/2018

Oil and Gas Location Assessment

New Location Refile Amend Existing Location Location#: 325516

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:

325516

Expiration Date:

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: 10000

Name: BP AMERICA PRODUCTION COMPANY

Address: 380 AIRPORT RD

City: DURANGO State: CO Zip: 81303

Contact Information

Name: Naomi Azulai

Phone: (970) 422-3516

Fax: ()

email: naomi.azulai@bp.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20010158

Gas Facility Surety ID: _____

Waste Management Surety ID: _____

LOCATION IDENTIFICATION

Name: HARPER

Number: 1

County: LA PLATA

Quarter: SESW Section: 18 Township: 34N Range: 6W Meridian: N Ground Elevation: 6919

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: 1274 feet FSL from North or South section line

1631 feet FWL from East or West section line

Latitude: 37.187209 Longitude: -107.544714

PDOP Reading: 2.1 Date of Measurement: 09/26/2017

Instrument Operator's Name: BRIAN BONIFACE

DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Method: Recycle/reuse

Cutting Disposal: OFFSITE Cuttings Disposal Method: Commercial Disposal

Other Disposal Description:

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: Eugene Harper

Phone: 970-884-2547

Address: 4008 County Road 523

Fax: _____

Address: _____

Email: _____

City: Bayfield State: CO Zip: 81122

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

Provide the distance to the nearest cultural feature as measured from Wells or Production Facilities onsite.

	From WELL	From PRODUCTION FACILITY
Building:	272 Feet	382 Feet
Building Unit:	808 Feet	917 Feet
High Occupancy Building Unit:	5280 Feet	5280 Feet
Designated Outside Activity Area:	5280 Feet	5280 Feet
Public Road:	1623 Feet	1708 Feet
Above Ground Utility:	202 Feet	50 Feet
Railroad:	5280 Feet	5280 Feet
Property Line:	917 Feet	786 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.
- For measurement purposes only, Production Facilities should only include those items with an asterisk(*) on the Facilities Tab.

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.
- Large UMA Facility - 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: 07/18/2017

FOR MULTI-WELL PADS AND PRODUCTION FACILITIES WITHIN DESIGNATED SETBACK LOCATIONS ONLY:

- Check this box if this Oil and Gas Location has or will have Production Facilities that serve multiple wells (on or offsite) and the Production Facilities are proposed to be located less than 1,000 feet from a Building Unit. *(Pursuant to Rule 604.c.(2)E.i., the operator must evaluate alternative locations for the Production Facilities that are farther from the Building Unit, and determine whether those alternative locations were technically feasible and economically practicable for the same proposed development.)*
- By checking this box, I certify that no alternative placements for the Production Facilities, farther from the nearest Building Unit, were available based on the analysis conducted pursuant to Rule 604.c.(2)E.i.

In the space below, explain rationale for siting the multi-well Production Facility(ies) that supports your Rule 604.c.(2)E.i determination. Attach documentation that supports your determination to this Form 2A.

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 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: No Soil Survey for this Township

NRCS Map Unit Name: _____

NRCS Map Unit Name: _____

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: 02/23/2018

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: 52 Feet

water well: 1923 Feet

Estimated depth to ground water at Oil and Gas Location 20 Feet

Basis for depth to groundwater and sensitive area determination:

Water Well # 262379

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 zone: No

If the location is within a Rule 317B Surface Water Supply Area buffer have all public water supply systems within 15 miles been notified:

Is the Location within a Floodplain? No Yes Floodplain Data Sources Reviewed (check all that apply)

Federal (FEMA)

State

County

Local

Other

GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 608

WILDLIFE

This location is included in a Wildlife Mitigation Plan

This location was subject to a pre-consultation meeting with CPW held on

Operator Proposed Wildlife BMPs

No BMP

DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

- Rule 604.a.(1)A. Exception Zone (within 500' of a Building Unit) and is in an Urban Mitigation Area
- 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

The only building unit within the buffer zone belongs to the surface owner who has agreed in the SUA to waive the right to Rules 305 and 306 notifications.

In addition to the equipment listed in the "Facilities" section of this form, there is also an RTU, meter house and a compressor on site that belongs to Red Cedar gathering company that do not belong to BP and are not permitted by BP.

Reference area photos will be submitted via sundry during the growing season.

This is a pad expansion, and the attached exhibits call out the newly proposed equipment.

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

Signed: _____ Date: 02/27/2018 Email: naomi.azulai@bp.com

Print Name: Naomi Azulai Title: Well Permitting 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: _____ Director of COGCC Date: _____

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.

COA Type

Description

<u>COA Type</u>	<u>Description</u>

Best Management Practices

No	BMP/COA Type	Description
1	Planning	<p>Rule 604.c.(2). A. Noise – The type of equipment planned for this site during the production operations phase is expected to remain below COGCC’s acceptable noise limits. Noise levels will be tested at the request of nearby property owners. Sound levels will be measured in accordance with COGCC Rule 802.c. If the noise levels during drilling and completions are found to exceed COGCC permissible levels, then BP will implement measures such as mufflers or sound walls. Production operations phase includes the permanent equipment set on location once drilling and completions has concluded. As noted in the Facilities section, a temporary gas powered generator may be installed in the event that LPEA is delayed in providing service to the site to operate the artificial lift production equipment.</p> <p>Rule 604.c.(2). B. Closed-loop Drilling Systems – Addressed in the APDs submitted for the proposed well planned on this site. No pits are planned.</p> <p>Rule 604.c.(2). C. Green Completions/Emission Control Systems - Coal wells do not utilize a flowback process. If fracture stimulation is employed: a post frac clean out is performed to prepare the well for production. During the cleanout procedure, fluids are routed to a temporary tank. Once gas starts to flow, the well is shut in so that gas is not released and can be routed to production. BP does not anticipate venting or flaring. In the unlikely event the well cannot be shut in in a timely manner, the gas would be vented through the temporary tank.</p> <p>Rule 604.c.(2). F. Leak Detection Plan – A wellsite-based monitoring system can automatically shut-in the wells upon the occurrence of anomalous conditions such as pressures outside of normal operating range in the water/gas pipelines on the downstream side of a well’s water/gas separator vessel or high water levels in tanks monitored by float switches. In addition, locations are continuously monitored by remote SCADA system. In the event of an unintentional release, BP will report the event as required by COGCC regulations, Rule 906, Spills and Releases. Immediate actions will be taken to stop the source and minimize potential offsite impact. If necessary, clean-up will be initiated as soon as possible, consistent with COGCC 1000 series regulations.</p> <p>Rule 604.c.(2). G. Berm Construction – All secondary containment requirements will be met for buffer/exception zone setback.</p> <p>Rule 604.c.(2). M. Fencing – If livestock is present, then cattle panels around equipment and/or fencing around the interim reclamation may be installed, as needed.</p> <p>Rule 604.c.(2). N. Control of Fire Hazards – Any material not in use that might constitute a fire hazard will be removed a minimum of 25 feet from the wellhead, tanks and separator. Any electrical equipment installations inside the bermed area will comply with API RP 500 classifications and comply with the current national electrical code as adopted by the State of Colorado.</p> <p>Rule 604.c.(2). P. Removal of Surface Trash – All surface trash, debris, scrap or discarded material connected with the operation will be removed from the premises and disposed of in a legal manner.</p> <p>Rule 604.c.(2). R. Tank Specifications – No crude oil or condensate storage is planned as a result of this operation.</p> <p>Rule 604.c.(2). S. Access Roads – Access roads will accommodate emergency vehicle access and will be constructed and maintained in a reasonable condition; as to not allow any sediment to migrate from the access road to nearby surface water or any drainages leading to surface water. Operator will strategically apply fugitive dust control measures to reduce fugitive dust and coating of vegetation and deposition in water sources.</p> <p>Rule 604.c.(2). W. Site Specific Measures – During drilling/completions operations the site lighting shall be directed downward and inward and shielded (to the extent practicable) so as to avoid glare on public roads and building units within 1000’. Once the well is in production operations phase, no permanent lighting will be installed on the pad.</p>
2	Wildlife	Covered in the San Juan Basin Wildlife Mitigation Plan (WMP) dated March 2011 with an extension dated May 2017.
3	Storm Water/Erosion Control	Covered in the Field Wide Storm Water management Plan. Site specific SWMPs have been developed for this location including sediment control logs and rock rundowns. See attached Construction and Reclamation SWMP drawings for details.

4	Interim Reclamation	All of the disturbed areas not used for routine operations will be reclaimed. This will include re-contouring slopes to 3:1 or greater and seeding/mulching. The seed will be drilled or broadcasted where machinery cannot access. Straw mulch will be spread and crimped over the seeded areas to retain moisture and limit erosion. Weeds will be inspected and treated annually, when necessary, by a certified weed control contractor.
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Total: 4 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401550164	FORM 2A SUBMITTED
401550724	CONST. LAYOUT DRAWINGS
401550725	CONST. LAYOUT DRAWINGS
401550726	LOCATION PICTURES
401550727	SURFACE AGRMT/SURETY
401550728	ACCESS ROAD MAP
401550729	FACILITY LAYOUT DRAWING
401550730	HYDROLOGY MAP
401550731	LOCATION DRAWING
401550732	PROPOSED BMPS
401550734	PROPOSED BMPS
401550735	WASTE MANAGEMENT PLAN
401555914	WELL LOCATION PLAT
401556131	REFERENCE AREA MAP
401570105	MULTI-WELL PLAN

Total Attach: 15 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)

Public Comments

No public comments were received on this application during the comment period.

