

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:

400541902

Date Received:

01/20/2014

Oil and Gas Location Assessment

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

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:

436726

Expiration Date:

04/12/2017

☒ 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: 26580

Name: BURLINGTON RESOURCES OIL & GAS LP

Address: PO BOX 4289

City: FARMINGTON State: NM Zip: 87499

Contact Information

Name: Justin Carlile

Phone: (281) 206-5770

Fax: (281) 647-1935

email: justin.carlile@conocophillips.com

RECLAMATION FINANCIAL ASSURANCE

☒ Plugging and Abandonment Bond Surety ID: 19920030 ☐ Gas Facility Surety ID: _____

☐ Waste Management Surety ID: _____

LOCATION IDENTIFICATION

Name: Reserve 3-65 34-35 Number: 1H

County: ADAMS

QuarterQuarter: NENE Section: 35 Township: 3S Range: 65W Meridian: 6 Ground Elevation: 5506

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: 660 feet FNL from North or South section line

400 feet FEL from East or West section line

Latitude: 39.752492 Longitude: -104.623217

PDOP Reading: 1.3 Date of Measurement: 08/27/2013

Instrument Operator's Name: Loren Shanks

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>1</u>	Oil Tanks	<u>3</u>	Condensate Tanks	<u> </u>	Water Tanks	<u>1</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>1</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>1</u>
Dehydrator Units	<u>1</u>	Vapor Recovery Unit	<u>1</u>	VOC Combustor	<u>1</u>	Flare	<u>1</u>	LACT Unit	<u>1</u>
								Pigging Station	<u>1</u>

OTHER FACILITIES

Other Facility Type

Number

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

The future pipeline that could be connected to this pad would consist of oil and gas lines constructed out of 4 inch carbon steel and also a water line constructed out of 4.5 inch Fiber spar.

CONSTRUCTION

Date planned to commence construction: 04/18/2014 Size of disturbed area during construction in acres: 4.34
Estimated date that interim reclamation will begin: 07/18/2014 Size of location after interim reclamation in acres: 3.35
Estimated post-construction ground elevation: 5505

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? Yes

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:

Drilling cuttings will be transported by a certified transport company and disposed of at a certified disposal facility.

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: Property Reserve, Inc.

Phone:

Address: P.O. Box 511196

Fax: _____

Address: _____

Email: _____

City: Salt Lake City State: UT Zip: 84151-1196

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: 1650 Feet
Building Unit: 3850 Feet
High Occupancy Building Unit: 5280 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 388 Feet
Above Ground Utility: 428 Feet
Railroad: 2700 Feet
Property Line: 400 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: _____

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: Adena Loam, 0 to 3 percent slopes

NRCS Map Unit Name: Weld Loam, 1 to 3 percent slopes

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: _____

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: 1080 Feet

water well: 3914 Feet

Estimated depth to ground water at Oil and Gas Location 42 Feet

Basis for depth to groundwater and sensitive area determination:

Changed groundwater depth based on email from operator, dated March 6, 2014.

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 609

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

This location will house one well, which will include a pilot hole and a lateral hole. Only the lateral hole will be produced the pilot hole is there to aide in the curve of the well.

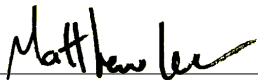
Not all equipment will be installed from the beginning of the well's life, some of the equipment is included for full disclosure of future phases of the oil and gas location. - Per email provided from operator on March 6, 2014.

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

Signed: _____ Date: 01/20/2014 Email: justin.carlile@conocophillips.com

Print Name: Justin Carlile Title: Regulatory Specialist

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: 4/13/2014

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.

COA Type

Description

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Best Management Practices

No	BMP/COA Type	Description
1		
2	Planning	<p>The Operator agrees to include the contents of Exhibit A of this MOU in all Forms 2 and 2A that it submits to the Commission and consents to the inclusion of the contents of Exhibit A of this MOU as conditions of the issuance of any permit or other form of approval by the Commission with regard to the location, development or operation of an oil and gas facility in unincorporated portions of the County, unless, and to the extent, waived or modified in writing by the Director of the Arapahoe County Public Works and Development Department, or waived or modified on the record at a public hearing before the Arapahoe County Board of County Commissioners; further, Operator understands and agrees that the provisions of this MOU shall remain conditions of permit or other form of approval regardless of the subsequent sale or other transfer of any oil and gas facilities, or interest therein, by Operator. The County through the LGD process described in the Commission's Rules may request that the Commission impose site specific conditions as part of the state permit process that are in addition to the Operator's practices or procedures agreed upon herein and the Operator may respond to same as set forth in the Commission's Rules. If the state permit has already been approved and the County and Operator are in agreement as to any subsequent, additional conditions to be placed on the state permit, the Operator agrees to apply to the Commission to modify the state permit by allowing such subsequent, additional conditions to be placed on the state permit.</p>
3	Community Outreach and Notification	Operator shall provide and post 24-hour, 7 days per week contact information to deal with all noise complaints arising from Operator's oil and gas facilities.
4	Community Outreach and Notification	Operator will provide the County with an Emergency Response Plan (ERP) to address all potential emergencies that may be associated with an oil and gas facility. Operator shall also provide a copy of such plan to all emergency service providers that would respond to such emergencies. A "will-serve" letter must be obtained from the appropriate emergency provider(s).
5	Storm Water/Erosion Control	See Attached MOU BMPs.
6	Material Handling and Spill Prevention	Berms shall be inspected by Operator on a weekly basis for evidence of discharge. Berms shall be inspected within 48 hours of a precipitation event.
7	Material Handling and Spill Prevention	Any spill or release that is reportable to the Commission shall be simultaneously reported to the County.
8	Noise mitigation	Operator shall provide and post 24-hour, 7 days per week contact information to deal with all noise complaints arising from Operator's oil and gas facilities.
9	Drilling/Completion Operations	All permanent lighting of oil and gas well sites shall be directed downward and internally. Temporary lighting shall conform to the Commission's Rules and Regulations.
10	Interim Reclamation	Operator will be responsible for noxious weed control on any well pad, facility, or disturbed area, from the drilling or installation phase to the closure of the well or facility.

Total: 10 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
1668218	MOU BMPs
1668219	ARAPAHOE COUNTY MOU
1668226	Location Drawing
1668228	NRCS MAP UNIT DESCRIPTION
400541902	FORM 2A SUBMITTED
400542348	ACCESS ROAD MAP
400542349	CONST. LAYOUT DRAWINGS
400542350	HYDROLOGY MAP
400542351	LOCATION PICTURES
400542352	NRCS MAP UNIT DESC
400542353	REFERENCE AREA MAP
400542354	REFERENCE AREA PICTURES
400544312	FACILITY LAYOUT DRAWING

Total Attach: 13 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Application reviewed and waived by City of Aurora LGD. No public comments. Final Review--passed.	4/10/2014 7:04:35 AM
OGLA	Changed the construction dates based on new timeline.	4/9/2014 1:30:34 PM
OGLA	Attached BMPs and MOU per operator email dated April 2, 2014. Entered applicable BMPs on BMP tab.	4/3/2014 10:21:12 AM
OGLA	Added BMPs per operator email dated April 2, 2014.	4/3/2014 10:20:44 AM
OGLA	Added comment to "Operator Comments." "Not all equipment will be installed from the beginning of the wells life, some of the equipment is included for full disclosure of future phases of the oil and gas location. - Per email provided from operator on March 6, 2014."	3/17/2014 4:57:28 PM
OGLA	Operator BMP/COA - MOU with Arapahoe County - has been removed.	3/17/2014 4:55:32 PM
OGLA	Changed "Depth to Groundwater to 42 feet based on email from operator, dated March 6, 2014.	3/17/2014 4:53:46 PM
OGLA	Nearest surface water feature has been changed to 1,080 feet based on Hydrology Map review.	3/17/2014 4:52:43 PM
OGLA	"Plant Community" information has been removed as this Location is on Cropland.	3/17/2014 4:51:47 PM
OGLA	Weld Loam, 1 to 3 percent slopes, has been added to the "Soils" tab. NRCS Description has not been provided as of 03/17/2014.	3/17/2014 4:49:14 PM
OGLA	Estimated date that interim reclamation will begin has been changed to 06/06/2014 per operator email dated March 6, 2014. Changed the size of location after interim reclamation to 3.35 per operator email dated April 2, 2014.	3/17/2014 4:47:59 PM
OGLA	Pipeline information has been added per operator email dated March 6, 2014.	3/17/2014 4:46:59 PM
OGLA	"Injection Pumps" has been removed from the "Facilities List."	3/17/2014 4:45:59 PM
OGLA	This location assessment is included as part of a permit application. The "Box" has been checked.	3/17/2014 4:44:46 PM

OGLA	<p>Checked box for part of permit application.</p> <p>Purpose of injection pump?</p> <p>Long term planning with respect to facilities?</p> <p>Reclamation timing - 3 months on crop land. Why need 4.00 acres?</p> <p>No Location Drawing attached. Incomplete application.</p> <p>No description of pipelines. Compressor?</p> <p>Soil type - added Weld Loam 1-3%, need NRCS description</p> <p>Location is crop land. Remove plant species info for native grassland and disturbed grassland</p> <p>changed distance to downgradient surface water from 1095 to 1080 per hydro map.</p> <p>Depth to water provided based on 1 TKD well. Water well records indicate several high production irrigation wells producing from alluvial aquifers, therefore DTW should be reflective (approx 20').</p> <p>BMPs: MOU not executed, incomplete and references Arapahoe County.</p> <p>Reference area map not needed. Reference area pictures (of corn) not needed.</p>	2/26/2014 8:44:10 AM
Permit	Added related APD's.	1/24/2014 1:02:23 PM
LGD	<p>This site lies within the City of Aurora Jurisdiction. Please refer this application to them for further comment.</p>	1/24/2014 8:04:28 AM
Permit	Passed completeness.	1/23/2014 11:17:58 AM
Permit	<p>Returned to draft:</p> <p>Missing attached Location Drawing required by 303.b.(3)D.</p>	1/21/2014 2:27:36 PM

Total: 19 comment(s)