

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:

401115552

Date Received:

09/22/2016

Oil and Gas Location Assessment

New Location     Refile     Amend Existing Location    Location#: \_\_\_\_\_

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:

**448370**

Expiration Date:

**11/17/2019**

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: 81490  
 Name: ST CROIX OPERATING INC  
 Address: P O BOX 13799  
 City: DENVER    State: CO    Zip: 80201

Contact Information

Name: Paul Melnychenko  
 Phone: (303) 489-9298  
 Fax: ( )  
 email: stcroixexp@aol.com

RECLAMATION FINANCIAL ASSURANCE

- Plugging and Abandonment Bond Surety ID: 20000108     Gas Facility Surety ID: \_\_\_\_\_
- Waste Management Surety ID: \_\_\_\_\_

LOCATION IDENTIFICATION

Name: Hickert-Boone    Number: #1  
 County: WASHINGTON  
 Quarter: SWSE    Section: 34    Township: 2S    Range: 49W    Meridian: 6    Ground Elevation: 4399

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: 1100 feet FSL from North or South section line  
2200 feet FEL from East or West section line

Latitude: 39.833340    Longitude: -102.846430

PDOP Reading: 2.0    Date of Measurement: 07/14/2016

Instrument Operator's Name: Adam Short



Name: Jaws Land Company Phone: 970-345-6444  
 Address: P.O. Box H Fax: \_\_\_\_\_  
 Address: \_\_\_\_\_ Email: \_\_\_\_\_  
 City: Akron State: CO Zip: 80720  
 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 09/20/2016

**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.

|                                   | <b>From WELL</b> | <b>From PRODUCTION FACILITY</b> |
|-----------------------------------|------------------|---------------------------------|
| Building:                         | 5280 Feet        | 5280 Feet                       |
| Building Unit:                    | 5280 Feet        | 5280 Feet                       |
| High Occupancy Building Unit:     | 5280 Feet        | 5280 Feet                       |
| Designated Outside Activity Area: | 5280 Feet        | 5280 Feet                       |
| Public Road:                      | 5280 Feet        | 5280 Feet                       |
| Above Ground Utility:             | 5280 Feet        | 5280 Feet                       |
| Railroad:                         | 5280 Feet        | 5280 Feet                       |
| Property Line:                    | 1100 Feet        | 1100 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: \_\_\_\_\_

**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: Valent Sand, 1-9% slope, Map unit symbol 70

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: \_\_\_\_\_

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, Chokeycherry)
- 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: 5280 Feet

water well: 910 Feet

Estimated depth to ground water at Oil and Gas Location 131 Feet

Basis for depth to groundwater and sensitive area determination:

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: \_\_\_\_\_

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 609

**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 Reference Area Pictures will be submitted via Sundry Notice, Form 4, within 12 months of the 2A approval.

There are no improvements located within 500 feet of the Location.

See Attachment: Proposed BMP for St. Croix Operating

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.  
Signed: \_\_\_\_\_ Date: 09/22/2016 Email: stcroixexp@aol.com

Print Name: Paul Melnychenko Title: President

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: Matthew Lee Director of COGCC Date: 11/18/2016

**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.

| <b><u>COA Type</u></b> | <b><u>Description</u></b>   |
|------------------------|---|
|                        | Operator shall construct and implement structural stormwater controls along the perimeters of the Location prior to earthwork activities. |
|                        | Operator shall submit Reference Area Pictures taken within the growing season within 12 months of the approval of this Form 2A.           |

**Best Management Practices**

| <b><u>No BMP/COA Type</u></b> | <b><u>Description</u></b> |
|-------------------------------|---------------------------|
|                               |                           |

## Attachment Check List

| <u>Att Doc Num</u> | <u>Name</u>        |
|--------------------|--------------------|
| 1010129            | HYDROLOGY MAP      |
| 401115552          | FORM 2A SUBMITTED  |
| 401115748          | OTHER              |
| 401116612          | PROPOSED BMPS      |
| 401123130          | LOCATION PICTURES  |
| 401123165          | NRCS MAP UNIT DESC |
| 401123234          | OTHER              |
| 401123954          | ACCESS ROAD MAP    |
| 401124349          | REFERENCE AREA MAP |

Total Attach: 9 Files

## General Comments

| <u>User Group</u> | <u>Comment</u>   | <u>Comment Date</u> |
|-------------------|--|---------------------|
| OGLA              | Per Operator request, changed Estimated Date of Construction to 11/29/2016 and Estimated Date of Interim Reclamation to 12/29/2016.  | 11/18/2016          |
| Permit            | Final Review Completed. No LGD or public comment received.   | 11/18/2016          |
| OGLA              | Per Operator request, removed HYDROLOGY MAP and uploaded modified HYDROLOGY MAP.   | 11/16/2016          |
| OGLA              | Per Operator request, removed "See Attachment Proposed BMP for St. Croix Operating" from the BMP Tab as it is not a BMP. Placed it under the Submit Tab.   | 11/11/2016          |
| OGLA              | Per Operator request, changed floodplain data to "FEDERAL and OTHER" as floodplains in Washington County have not been mapped by FEMA to date. Based on a review of the nearest surface water features, general topography, geomorphology and soils data, the Location does not appear to lie within a floodplain.   | 11/11/2016          |
| OGLA              | Per Operator request, changed SENSITIVE AREA to YES as the Location lies within the Northern High Plains Designated Basin. Added the Basin to the Basis Statement.<br>Per Operator request, changed distance to the nearest water well to 910 feet as shown on the USGS Topographic Map and the GOGIS and Google aerials.  | 11/11/2016          |
| OGLA              | Per Operator request, changed LOCATION DRAWING to OTHER as the DRAWING does not meet the requirements of the LOCATION DRAWING.<br>Per Operator request, changed FACILITY LAYOUT DRAWING to OTHER as the DRAWING does not meet the requirements of the FACILITY LAYOUT DRAWING.<br>Placed the a comment under the Submit Tab that there are no improvements within 500 feet of the Location.  | 11/11/2016          |
| OGLA              | Per Operator request, added 1 ECD under the facilities tab.  | 11/11/2016          |
| Permit            | Passed completeness.   | 10/06/2016          |
| Permit            | Returned to draft:<br>-- missing required Location Pictures  | 10/05/2016          |
| Permit            | Returned to draft:<br>-- missing required Reference Area Map<br>-- missing required Reference Area Pictures  | 10/04/2016          |
| Permit            | Relabeled NRCS Map Unit Description attachments, and deleted Topo Map per Operator consult.<br><br>No improvements within 500' of Location.  | 10/04/2016          |
| Permit            | Returned to draft:<br>-- missing required pipeline description on Facilities tab<br>-- need NRCS map unit name/number on Soil tab<br>-- missing Location Pictures attachment<br>-- missing NRCS attachment<br>-- missing Reference Area Map attachment<br>-- missing Reference Area Pictures attachment<br>-- delete Well Location Plat attachment<br>-- delete Topo Map attachment<br>-- "Other" attachment should be labeled "Location Drawing", but needs to include diagram of disturbed area and location of facilities | 10/03/2016          |

Total: 13 comment(s)