

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:

1759561

**Oil and Gas Location Assessment**

☒ New Location ☐ Amend Existing Location Location#: \_\_\_\_\_

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:

**415154**

Expiration Date:

**01/05/2013**

☒ 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: 8960

Name: BONANZA CREEK ENERGY OPERATING COMPANY LLC

Address: P O BOX 21974

City: BAKERSFI State: CA Zip: 93390  
ELD

**3. Contact Information**

Name: KERRY MCCOWEN

Phone: (720) 279-2330

Fax: (720) 279-2331

email: KAM@BONANZACRK.COM

**4. Location Identification:**

Name: DOW Number: 24-28

County: WELD

QuarterQuarter: SESW Section: 28 Township: 5N Range: 63W Meridian: 6 Ground Elevation: 4538

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: 783 feet, from North or South section line: FSL and 2075 feet, from East or West section line: FWL

Latitude: 40.365420 Longitude: -104.443050 PDOP Reading: 2.6 Date of Measurement: 08/17/2009

**5. Facilities (Indicate the number of each type of oil and gas facility planned on location):**

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

Other: \_\_\_\_\_

6. Construction:

Date planned to commence construction: 12/01/2009 Size of disturbed area during construction in acres: 1.20  
Estimated date that interim reclamation will begin: 01/30/2010 Size of location after interim reclamation in acres: 0.50  
Estimated post-construction ground elevation: 4538 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: \_\_\_\_\_

7. Surface Owner:

Name: \_\_\_\_\_ Phone: \_\_\_\_\_  
Address: \_\_\_\_\_ Fax: \_\_\_\_\_  
Address: \_\_\_\_\_ Email: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Date of Rule 306 surface owner consultation: 08/12/2009  
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: 20070004 ☐ 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: 1135, public road: 1400, above ground utilit: 1135  
, railroad: 5280, property line: 783

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: 3 AQUOLIS AND AQUENTS, GRAVELLY SUBSTRATUM

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: 08/01/2009

List individual species: UPLAND: CANADA THISTLE, FIELD BINDWEED, KOCHIA, WESTERN WHEATGRASS, ALKALI  
SACATION, PRICKLY LETTUCE, PRICKLY PEAR, WETLAND: REED CANARYGRASS,  
AMERICAN THREESQUARE, BALTIC RUSH

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): NO PRISTINE NATIVE PLANT COMMUNITIES. AREA IS DOMINATED BY DISTURBED  
GRASSLAND W/NATIVE COMPONENTS.

### 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: 827, water well: 2080, depth to ground water: 18

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 Supply 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:

A NATIONWIDE PERMIT IS IN THE PROCESS OF BEING FILED FOR THE PROJECT WITH THE CORPS OF ENGINEERS. A COPY OF THE APPLICATION WILL BE PROVIDED WHEN FINALIZED. THE PROJECT WOULD RESULT IN MINOR WETLAND IMPACTS AND NO IMPACTS TO RIPARIAN COMMUNITIES. PRODUCTION FACILITIES WILL BE LOCATED 500' NE OF THE WELL AT THE JUNCTION OF THE EXISTING ROAD AND THE NEW LEASE ROAD PER DOW REQUEST. THE REFERENCE AREA FOR THE WELL AND THE FACILITIES ARE THE SAME AND ARE LOCATED NORTH OF THE WELL. PICTURES INCLUDED WITH FORM 2. STEEL PITS WILL BE USED FOR DRILLING AND SECONDARY CONTAINMENT FOR PRODUCTION FACILITIES WILL BE LINED. GEOTEXTILE MATTING WILL BE USED IN CONSTRUCTION OF ROADS AND PADS WHERE POSSIBLE PER DOW REQUEST. STORM WATER BMPS SCANNED INTO DOW 13-28 NWSW 28-5N-63W.

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

Signed: \_\_\_\_\_ Date: 11/04/2009 Email: SER@BONANZACRK.COM

Print Name: STEPHEN R. WOLFE Title: 10/28/2009

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. Nash*

Director of COGCC

Date: 1/6/2010

Location is in a sensitive area because of close proximity to surface water and wetlands, therefore, operator must ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations

Location is in a sensitive area because of shallow groundwater and proximity to wetlands; therefore, either a lined drilling pit or closed loop system is required

Operator must implement best management practices to contain any unintentional release of fluids

### **Attachment Check List**

Att Doc Num	Name	Doc Description
1759561	FORM 2A	LF@2171186 1759561
1759568	LOCATION PICTURES	LF@2171175 1759568
1759569	LOCATION PICTURES	LF@2171177 1759569
1759570	LOCATION DRAWING	LF@2171178 1759570
1759571	HYDROLOGY MAP	LF@2171179 1759571
1759572	ACCESS ROAD MAP	LF@2171180 1759572
1759573	REFERENCE AREA MAP	LF@2171181 1759573
1759574	REFERENCE AREA PICTURES	LF@2171182 1759574
1759575	NRCS MAP UNIT DESC	LF@2171187 1759575
1784633	CORRESPONDENCE	LF@2191727 1784633
1784634	CORRESPONDENCE	LF@2191728 1784634
1784720	CORRESPONDENCE	LF@2208601 1784720
1784721	CORRESPONDENCE	LF@2208602 1784721
1784724	PROPOSED BMPs	LF@2208603 1784724

Total Attach: 14 Files