

FORM  
2A

Rev  
04/01

# 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:

400349227

Date Received:

11/21/2012

## Oil and Gas Location Assessment

New Location

Amend Existing Location

Location#: 428090

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:

**428090**

Expiration Date:

**12/26/2015**

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: 410 17TH STREET SUITE #1400

City: DENVER State: CO Zip: 80202

### 3. Contact Information

Name: Keith Caplan

Phone: (720) 440-6100

Fax: (720) 279-2331

email: KCaplan@BonanzaCrk.com

### 4. Location Identification:

Name: State Pronghorn

Number: P-16 Pad

County: WELD

Quarter: NENE Section: 16 Township: 5N Range: 61W Meridian: 6 Ground Elevation: 4629

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: 200 feet FNL, from North or South section line, and 698 feet FEL, from East or West section line.

Latitude: 40.407750 Longitude: -104.206740 PDOP Reading: 2.3 Date of Measurement: 01/23/2012

Instrument Operator's Name: Dan Griggs

### 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="8"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text" value="32"/>	Water Tanks: <input type="text" value="8"/>	Separators: <input type="text" value="8"/>	Electric Motors: <input type="text" value="8"/>	Multi-Well Pits: <input type="text"/>
Gas or Diesel Motors: <input type="text" value="8"/>	Cavity Pumps: <input type="text"/>	LACT Unit: <input type="text"/>	Pump Jacks: <input type="text" value="8"/>	Pigging Station: <input type="text" value="1"/>
Electric Generators: <input type="text" value="5"/>	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" value="6"/>	VOC Combustor: <input type="text" value="8"/>	Oil Tanks: <input type="text"/>	Fuel Tanks: <input type="text"/>	

Other: 8 60-bbl cement water vaults

### 6. Construction:

Date planned to commence construction: 12/21/2012 Size of disturbed area during construction in acres: 5.80  
Estimated date that interim reclamation will begin: 04/28/2014 Size of location after interim reclamation in acres: 3.00  
Estimated post-construction ground elevation: 4629 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: 10/09/2012  
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: 20120018  Gas Facility Surety ID: \_\_\_\_\_  Waste Mgmt. Surety ID: \_\_\_\_\_

### 9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes  No   
Distance, in feet, to nearest building: 5280, public road: 4700, above ground utilit: 5280  
, railroad: 5280, property line: 198

### 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 be 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: Vona loamy sand, 0-3% slopes (72)

NRCS Map Unit Name: Vona loamy sand, 5-9% slopes (74)  
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: 3515, water well: 5280, 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:**

Reference Area Map and Pictures attached. No water wells within 2 miles. Depth to groundwater listed as 15'.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.  
Signed: \_\_\_\_\_ Date: 11/21/2012 Email: KCaplan@BonanzaCrk.com  
Print Name: Keith S. Caplan Title: Sr. 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: 12/27/2012

**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.

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**Attachment Check List**

Att Doc Num	Name
400349227	FORM 2A SUBMITTED
400349333	NRCS MAP UNIT DESC
400349334	NRCS MAP UNIT DESC
400349335	WASTE MANAGEMENT PLAN
400349336	LOCATION DRAWING
400349337	HYDROLOGY MAP
400349338	ACCESS ROAD MAP
400349340	LOCATION PICTURES
400349342	MULTI-WELL PLAN
400349343	REFERENCE AREA MAP
400349344	REFERENCE AREA PICTURES

Total Attach: 11 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	State land board ok with location and bond. Final Review Completed. No LGD or public comment received.	12/27/2012 9:08:31 AM
OGLA	Reviewed 12/3/2012.	12/3/2012 12:35:53 PM
Permit	Notified state land board. Initial review complete form 2 and 2A compared.	12/3/2012 12:18:01 PM
Permit	operator completed plant community section and amended soils to Vona. This form passed completeness.	11/26/2012 2:47:01 PM
Permit	Rerturn to draft: 1. plant community section, noxious weeds present, is incomplete, 2. cultural/soil section, soils (Voan) do not match NRCS map unit soils name.	11/23/2012 11:24:25 AM

Total: 5 comment(s)

**BMP**

<b><u>Type</u></b>	<b><u>Comment</u></b>

Total: 0 comment(s)