

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



DE ET OE ES

Document Number:  
400062528

Oil and Gas Location Assessment

New Location  Amend Existing Location Location#: 310862

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:  
**310862**  
Expiration Date:

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: Keith Caplan  
Phone: (720) 279-2330  
Fax: (720) 279-2331  
email: KCaplan@bonanzacr.com

4. Location Identification:

Name: Antelope Number: 41-19  
County: WELD  
Quarter: NENE Section: 19 Township: 5N Range: 62W Meridian: 6 Ground Elevation: 4630

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: 660 feet, from North or South section line: FNL and 678 feet, from East or West section line: FEL  
Latitude: 40.390360 Longitude: -104.359030 PDOP Reading: 2.7 Date of Measurement: 02/13/2008

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

Special Purpose Pits:  Drilling Pits:  1 Wells:  1 Production Pits:  Dehydrator Units:   
Condensate Tanks:  Water Tanks:  1 Separators:  1 Electric Motors:  Multi-Well Pits:   
Gas or Diesel Motors:  Cavity Pumps:  LACT Unit:  Pump Jacks:  Pigging Station:   
Electric Generators:  Gas Pipeline:  1 Oil Pipeline:  Water Pipeline:  Flare:   
Gas Compressors:  VOC Combustor:  1 Oil Tanks:  2 Fuel Tanks:

Other: Will also serve as Antelope 42-19 production facility. 3-phase flowline from Antelope 42-19.

6. Construction:

Date planned to commence construction: 07/15/2010 Size of disturbed area during construction in acres: 0.90  
Estimated date that interim reclamation will begin: 10/14/2010 Size of location after interim reclamation in acres: 0.50  
Estimated post-construction ground elevation: 4630 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: Mr. Robert Lembke Phone: \_\_\_\_\_  
Address: 70 Ranch LLC Fax: \_\_\_\_\_  
Address: 5460 S. Quebec St., Ste. 110 Email: \_\_\_\_\_  
City: Greenwood Village State: CO Zip: 80111 Date of Rule 306 surface owner consultation: 03/27/2008  
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 20070001

8. Reclamation Financial Assurance:

Well Surety ID: 20070004  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: 2975, public road: 5280, above ground utilit: 2200  
, railroad: 5280, property line: 660

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: Valent Sand, 3-9% slopes (70)  
NRCS Map Unit Name: Valent Sand, 0-3% slopes (69)  
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 (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): \_\_\_\_\_

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: 5280, water well: 2900, depth to ground water: 43  
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:

Location is a former hog farm, currently being reclaimed. Powerlines are de-energized, distance to power lines is greater than 2200 ft. Buildings are vacant. Bonanza Creek Operating will line drilling pit. Distance to nearest surface water greater than one mile. The reference area is on undisturbed land immediately adjacent to location and to the east, as depicted in the location picture facing east. Water level determined from water well permit #188372--A, plus 25 ft elevation differential.

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

Signed: \_\_\_\_\_ Date: \_\_\_\_\_ Email: srw@bonanzacrk.com

Print Name: Stephen Wolfe Title: Sr. Prod. Eng.

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, 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.**

**Attachment Check List**

Att Doc Num	Name	Doc Description
400063035	NRCS MAP UNIT DESC	Valent_69.pdf
400063036	NRCS MAP UNIT DESC	Valent_70.pdf
400064442	LOCATION DRAWING	Location Drawing.pdf
400064443	HYDROLOGY MAP	Hydrology.pdf
400064444	ACCESS ROAD MAP	access road.pdf
400064952	LOCATION PICTURES	Antelope 41-19 location pics.pdf

Total Attach: 6 Files