

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:

400623801

Date Received:

06/27/2014

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:

438608

Expiration Date:

08/15/2017

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: 8960

Name: BONANZA CREEK ENERGY OPERATING COMPANY LLC

Address: 410 17TH STREET SUITE #1400

City: DENVER State: CO Zip: 80202

Contact Information

Name: Randy Edelen

Phone: (720) 440-6100

Fax: (720) 279-2331

email: REdelen@BonanzaCrk.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20120018

Gas Facility Surety ID: _____

Waste Management Surety ID: _____

LOCATION IDENTIFICATION

Name: State Pronghorn

Number: X-29 Pad

County: WELD

Quarter: SESE Section: 29 Township: 5N Range: 61W Meridian: 6 Ground Elevation: 4602

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: 1240 feet FSL from North or South section line

210 feet FEL from East or West section line

Latitude: 40.367970 Longitude: -104.224340

PDOP Reading: 2.1 Date of Measurement: 04/14/2014

Instrument Operator's Name: David A. Fehringer

SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: State Land Board

Phone: 303-866-3454

Address: 360 Oak Ave

Fax: _____

Address: Suite 110

Email: _____

City: Eaton State: CO Zip: 80615

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: 1960 Feet
Building Unit: 1960 Feet
High Occupancy Building Unit: 5280 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 220 Feet
Above Ground Utility: 5280 Feet
Railroad: 5280 Feet
Property Line: 1417 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 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: 69 Valent sand, 0 to 3 percent slopes
NRCS Map Unit Name: 70 Valent sand, 3 to 9 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, 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: 2052 Feet

Estimated depth to ground water at Oil and Gas Location 22 Feet

Basis for depth to groundwater and sensitive area determination:

Nearby Water Wells report static water levels ranging from 150 feet to 250 feet. However, the nearby Riverside Reservoir and three additional wells report static water levels ranging from 5 feet to 22 feet suggesting the presence of shallow surficial groundwater. Depth to Groundwater based on the static water level reported at DWR Permit #64751.

Colorado Division of Water Resources Records

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 318A

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

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

Signed: _____ Date: 06/27/2014 Email: REdelen@BonanzaCrk.com

Print Name: Randy Edelen 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: 8/16/2014

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.

<u>COA Type</u>	<u>Description</u>
	Operator shall submit a Form 4 Sundry to remove equipment if not constructed or after its use is complete.
	Operator must provide Notice of Construction to COGCC via Form 42, no less than 48 hours prior to commencing operations with heavy equipment.

Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>
1	Drilling/Completion Operations	The following procedure describes BCEI standard construction practices for setting a partially buried pre-cast cement water vault and new tank battery construction. 1) The excavation will first be lined with 4" of clay or other low permeability soil. 2) A 30 mil liner will be installed on top of the low permeability soil. The 30 mil liner will be a contiguous liner which will underlay the entire tank battery. 3) The tank battery / water vault liner will be keyed into a galvanized steel containment ring installed surrounding the tank battery. 4) Sand bedding will be installed to protect the synthetic liner prior to placing equipment in the containment area.

Total: 1 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400623801	FORM 2A SUBMITTED
400624344	HYDROLOGY MAP
400624345	LOCATION PICTURES
400624347	LOCATION DRAWING
400624348	MULTI-WELL PLAN
400624349	ACCESS ROAD MAP
400624350	REFERENCE AREA MAP
400624361	NRCS MAP UNIT DESC
400624362	NRCS MAP UNIT DESC
400625996	WASTE MANAGEMENT PLAN

Total Attach: 10 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Final Review	Issues resolved on APDs. Form 2A Off Hold for Final Approval. Added pre-construction notification COA.	8/16/2014 3:42:55 PM
Final Review	Final Approval ON HOLD due to discrepancies in cultural distances and surface casing among related APDs.	8/13/2014 8:06:38 PM
Permit	Surface Restoration Bond on file with SLB; per Tim Kelly. Final review complete.	8/12/2014 9:41:43 AM
OGLA	Removed MLVTs from the Facilities list per Operator request.	8/8/2014 12:25:38 PM
OGLA	Please provide the following information regarding the proposed MLVTs: manufacturer or vendor of the MLVT, number and size(s) of the MLVTs, anticipated timeframe MLVTs will be onsite, a Location Drawing indicating where the MLVTs will be located with respect to other facility equipment, property boundaries, and the Operator's certification that the MLVTs will be designed and implemented consistent with this policy.	8/4/2014 12:56:33 PM
OGLA	Reference Area Photographs and Map are combined into one Document in the Attachments.	8/4/2014 10:46:15 AM
OGLA	Nearby Water Wells report static water levels ranging from 150 feet to 250 feet. However, the nearby Riverside Reservoir and three additional wells report static water levels ranging from 5 feet to 22 feet suggesting the presence of shallow surficial groundwater. Changed Depth to Groundwater to 22 feet based on the static water level reported at DWR Permit #64751.	8/4/2014 10:35:24 AM
OGLA	The Proposed Location is listed as producing to an offsite Location. However, the Proposed Location also has Production Facilities listed. Please verify. Per Operator response: We added facilities to this pad as a contingency/safety/future planning item. We are still planning to have the State Pronghorn CPF 41-32 as the primary production facility.	8/4/2014 10:23:26 AM
Permit	Passed completeness. Drilling fluids disposal filled in.	6/30/2014 4:58:52 PM
Permit	Return to draft. The drilling fluids disposal is selected as N/A and the disposal method says other but has no description below.	6/30/2014 3:07:29 PM

Total: 10 comment(s)