

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:

400679701

Date Received:

09/08/2014

Oil and Gas Location Assessment

New Location Refile Amend Existing Location Location#: 438202

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:

438202

Expiration Date:

10/04/2017

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: Keith Caplan

Phone: (720) 440-6100

Fax: (720) 279-2331

email: KCaplan@BonanzaCrk.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20120018

Gas Facility Surety ID: _____

Waste Management Surety ID: _____

LOCATION IDENTIFICATION

Name: North Platte

Number: A-33 Pad

County: WELD

Quarter: NWNW Section: 33 Township: 5N Range: 63W Meridian: 6 Ground Elevation: 4570

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: 382 feet FNL from North or South section line

458 feet FWL from East or West section line

Latitude: 40.362217 Longitude: -104.448806

PDOP Reading: 1.5 Date of Measurement: 10/28/2013

Instrument Operator's Name: Rob Wilson

RELATED REMOTE LOCATIONS

(Enter as many Related Locations as necessary. Enter the Form 2A document # only if there is no established COGCC Location ID#)

This proposed Oil and Gas Location is:

LOCATION ID # FORM 2A DOC #



FACILITIES

Indicate the number of each type of oil and gas facility planned on location

Wells	<u>7</u>	Oil Tanks	<u>28</u>	Condensate Tanks	<u>4</u>	Water Tanks	<u>7</u>	Buried Produced Water Vaults	<u>7</u>
Drilling Pits	<u> </u>	Production Pits	<u> </u>	Special Purpose Pits	<u> </u>	Multi-Well Pits	<u> </u>	Temporary Large Volume Above Ground Tanks	<u>2</u>
Pump Jacks	<u>7</u>	Separators	<u>7</u>	Injection Pumps	<u> </u>	Cavity Pumps	<u> </u>		
Gas or Diesel Motors	<u>7</u>	Electric Motors	<u>14</u>	Electric Generators	<u>4</u>	Fuel Tanks	<u> </u>	Gas Compressors	<u>10</u>
Dehydrator Units	<u>1</u>	Vapor Recovery Unit	<u>6</u>	VOC Combustor	<u>8</u>	Flare	<u>1</u>	LACT Unit	<u>2</u>
								Pigging Station	<u>1</u>

OTHER FACILITIES

Other Facility Type

Number

Vapor Recovery Towers	<u>4</u>
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Per Rule 303.b.(3)C, description of all oil, gas, and/or water pipelines:

Seven (7) 3-phase flowlines: 3" coated steel
One (1) gas sales line connection: 6" coated steel
Two (2) oil gather lines: 4" coated steel
Two (2) produced water gathering lines: 4" coated steel
Vent/VRU Lines; 4@6", 4@10", 4@12": steel

Temporary Large Volume Above Ground Storage Tanks are steel sided with new liner.
Both MLVTs will be 42,000 bbl (157' diameter).
The manufacturer/vendor will be Rockwater and/or HydroLogistics, depending on availability.
P.E. approved designs and ground preparation S.O.P.'s are maintained in Bonanza's files.
The MLVTs will be on location approximately 10/15/14 - 12/31/14

CONSTRUCTION

Date planned to commence construction: 10/01/2014 Size of disturbed area during construction in acres: 8.21

Estimated date that interim reclamation will begin: 03/16/2015 Size of location after interim reclamation in acres: 3.00

Estimated post-construction ground elevation: 4569

DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: Yes

Is H₂S anticipated? No

Will salt sections be encountered during drilling: No

Will salt based mud (>15,000 ppm Cl) be used? No

Will oil based drilling fluids be used? No

CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 510 Feet
Building Unit: 510 Feet
High Occupancy Building Unit: 5280 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 275 Feet
Above Ground Utility: 275 Feet
Railroad: 5280 Feet
Property Line: 275 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: 01/29/2014

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: 21, Dacono clay loam, 0 to 1 percent slopes

NRCS Map Unit Name: 19, Colombo clay loam, 0 to 1 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, 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): _____

WATER RESOURCES

Is this a sensitive area: No Yes

Distance to nearest

downgradient surface water feature: 272 Feet

water well: 347 Feet

Estimated depth to ground water at Oil and Gas Location 28 Feet

Basis for depth to groundwater and sensitive area determination:

Closest water well with permit# 13949-R used for groundwater elevation.

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

Expanding location to fit 2 - 42,000 bbl MLVTs. The original 2A listed 1 - 20,000bbl MLVT and 1 - 42,000 bbl MLVT. The size of location after interim reclamation remains the same.
Cultural Item distances measured from closest edge of proposed MLVT closest to the reported feature.
Plans were changed due to timing of availability of water to be piped to the MLVTs. A portion of the easement required for our temporary piping will expire, cutting off our water supply. In order to avoid trucking the water required to stimulate these wells, the location is being expanded (in conjunction with permitting the North Platte 43-29 MLVT Pad) to accomodate storage of water needed to stimulate the wells drilled this year.
Bonanza does not imply any changes to BMPs already committed to pertaining to this location.

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

Signed: _____ Date: 09/08/2014 Email: KCaplan@BonanzaCrk.com

Print Name: Keith 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: 10/5/2014

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.

COA Type

Description

<u>COA Type</u>	<u>Description</u>

Best Management Practices

No BMP/COA Type

Description

1	Planning	Bonanza will develop a Contingency Plan specific to the location for any LVST leak or catastrophic failure of the tank integrity and resulting loss of fluid. The plan includes a notification process to the COGCC and local Emergency authority (municipality, county, or both) for any failure resulting in loss of fluid. The Contingency Plan will be available to the COGCC upon request.
2	Pre-Construction	MLVTs will be constructed and operated in accordance with a design certified by a Colorado Licensed Professional Engineer.
3	Drilling/Completion Operations	COGCC Rules 604.a and 605.a (2,3,5,6,7, and 8), as applicable to tank setbacks at the time of installation shall apply to the siting of MLVTs.
4	Drilling/Completion Operations	Signs shall be posted on each MLVT to indicate contents are freshwater and that no E&P Waste fluids are allowed. Location and additional signage shall conform to Rule 210.
5	Drilling/Completion Operations	MLVTs may only be utilized for the storage of freshwater. E&P wastes, including produced water, treated E&P wastes, and flowback from hydraulic fracturing operations will not be allowed.
6	Drilling/Completion Operations	MLVTs shall not be located on non-engineered fill material. Subgrade preparation shall be verified by proof-rolling prior to MLVT installation.
7	Drilling/Completion Operations	All MLVT liners seams shall be welded at the liner manufacturer's facility. Field welded liners shall not be used. Liners shall not be reused.
8	Drilling/Completion Operations	A minimum of 1 foot of freeboard will be maintained in all MLVTs.
9	Drilling/Completion Operations	Should a failure of MLVT integrity occur, Bonanza will notify COGCC upon discovery, report the incident to COGCC on a Form 22-Accident Report within 10 days of discovery, and conduct a root cause analysis. The results of the root cause analysis will be reported to COGCC on a Sundry-Form 4 within 30 days of discovery of the failure.
10	Drilling/Completion Operations	Once in operation, M LVTs will be inspected daily and any deficiencies repaired as soon as practicable.

Total: 10 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
901074	MULTI-WELL PLAN
400679701	FORM 2A SUBMITTED
400681241	ACCESS ROAD MAP
400681243	CONST. LAYOUT DRAWINGS
400681244	HYDROLOGY MAP
400681245	LOCATION DRAWING
400681247	LOCATION PICTURES
400681287	OTHER

Total Attach: 8 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	No LGD or public comments. Final Review--passed.	10/3/2014 11:29:26 AM
	305.a and 306.e Certifications were included on the original Form 2A submittal. The amendments to this Location include the expansion of the surface disturbance for the addition of 2 MLVTs. No additional Certifications are required at this time	10/3/2014 10:37:40 AM
Permit	Multi Well Plan corrected and attached.	9/23/2014 4:34:51 PM
Permit	Requested multi-well plan showing 7 wells to match number of wells in facilities tab. Current multi-well plan showing 6 wells.	9/23/2014 3:56:50 PM
Permit	Operator has requested that this form be given high priority and approved immediately after public comment.	9/10/2014 3:38:27 PM
Permit	Passed Completeness	9/10/2014 1:58:04 PM
OGLA	Passed Buffer Zone completeness review. Operator shall review to insure that necessary/appropriate 604.c.(2) Mitigation Measures are on the Form 2A while the Form is in PROCESS. The operator will provide the appropriate measures for compliance with Rule 604.c.(2) which will be added to the form by COGCC. These measures must be provided by the operator prior to the end of the Public Comment Period. Added MLVT Operator BMPs per Operator request and concurrence - MMH 10/03/2014	9/10/2014 10:17:42 AM
Permit	Within Exception Zone, sent to John Noto for further review.	9/10/2014 8:41:34 AM

Total: 8 comment(s)