

FORM  
2A

Rev  
01/21

# 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:

402735734

**(SUBMITTED)**

Date Received:

07/20/2021

Location ID:

**159738**

Expiration Date:

## Oil and Gas Location Assessment

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 <https://cogcc.state.co.us/> for all accompanying information pertinent this Oil and Gas Location Assessment.

New Location  Refile  Amend Existing Location # 159738

If this Location assessment is a component of an Oil and Gas Development Plan (OGDP) application, enter the OGDP docket number(s).

Docket Number	OGDP ID	OGDP Name
210700117		

If this Location assessment is part of an existing Oil and Gas Development Plan, enter the OGDP ID number(s).

<No existing OGDP number provided>

## CONSULTATION

- This location is included in a Comprehensive Area Plan (CAP). CAP ID # \_\_\_\_\_
- This Location or its associated new access road, utility, or Pipeline corridor meets Rule 309.e.(2).A, B, or C.
- This Location is within 2,640 feet of a GUDI or Type III Well per Rule 411.b.(4).
- This Location includes a Rule 309.e.(2).E variance request.
- This location includes a Rule 309.f.(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: Scott Park

Phone: (970) 415-0778

Fax: ( )

email: spark@bonanzacrk.com

## FINANCIAL ASSURANCE

- Plugging and Abandonment Bond Surety ID (Rule 706): 20120018  Gas Facility Surety ID (Rule 711): \_\_\_\_\_
- Waste Management Surety ID (Rule 704): \_\_\_\_\_

## LOCATION IDENTIFICATION

Name: State Antelope B-2 Pad Number: N/A

Provide the location description and the latitude and longitude of a single point near the center of the Working Pad Surface as a reference for this Location.

QuarterQuarter: NWNW Section: 2 Township: 5N Range: 62W Meridian: 6 Ground Elevation: 4645

Latitude: 40.432240 Longitude: -104.298840

GPS Quality Value: 1.6 Type of GPS Quality Value: PDOP Date of Measurement: 06/18/2021

## 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 #**  
Production Facilities Location serves Well(s)                      440823                      \_\_\_\_\_

## RELEVANT LOCAL GOVERNMENT SITING INFORMATION

County: WELD                      Municipality: N/A

Per § 34-60-106 (1)(f)(I)(A), the following questions pertain to the "Relevant Local Government approval of the siting of the proposed oil and gas location."

This proposed Oil and Gas Location is in an area designated as one of State interest and subject to the requirements of § 24-65.1-108, C.R.S.                      Yes

Does the Relevant Local Government regulate the siting of Oil and Gas Locations, with respect to this location?                      Yes

A siting permit application has been submitted to the Relevant Local Government for this proposed Oil and Gas Location:                      No

Date Relevant Local Government permit application submitted: \_\_\_\_\_

Current status or disposition of the Relevant Local Government permit application for this proposed Oil and Gas Location:                      Other

Status/disposition date:                      07/07/2021

If Relevant Local Government permit has been approved or denied, attach final decision document(s).  
Provide the contact information for the Relevant Local Government point of contact for the local permit associated with this proposed Oil and Gas Location:

Contact Name: Jason Maxey                      Contact Phone: (970) 400-3580

Contact Email: oged@weldgov.com

## PROXIMATE LOCAL GOVERNMENT INFORMATION

For every Proximate Local Government (PLG) associated with this proposed Oil and Gas Location, provide the PLG's point of contact and their contact information.

< No row provided >

## FEDERAL PERMIT INFORMATION

A Federal drilling permit (or related siting application) has been submitted for this proposed Oil and Gas Location:                      No

Date submitted: \_\_\_\_\_

Current status or disposition of the Federal drilling permit (or related siting application) for this proposed Oil and Gas Location:                      \_\_\_\_\_

Status/disposition Date: \_\_\_\_\_

If Federal agency permit has been approved or denied, attach the final decision document(s).  
Provide the contact information of the Federal point of contact for the Federal permit associated with this proposed Oil and Gas Location.

Contact Name: \_\_\_\_\_                      Contact Phone: \_\_\_\_\_

Contact Email: \_\_\_\_\_                      Field Office: \_\_\_\_\_

Additional explanation of local and/or federal process:

N/A

## RELEVANT LOCAL GOVERNMENT OR FEDERAL PRE-APPLICATION CONSULTATION

Complete this section for any pre-application consultation related to this proposed Oil and Gas Location that occurred prior to the submission of this Form 2A. If a pre-application Formal Consultation Process occurred, attach a Consultation Summary.

Did a pre-application Formal Consultation Process occur with the Relevant Local Government per Rule 301.f.(3)?                      Yes

04/14/2021

Date of local government consultation:

Did a pre-application Formal Consultation Process occur with the Federal land manager per Rule 301.f.(3)? No

Date of federal consultation: \_\_\_\_\_

Was an ALA that satisfies Rule 304.b.(2).C (or substantially equivalent information per Rule 304.e) developed during a federal or local government permit application process? If yes, attach the ALA to the Form 2A. Yes

### ALA APPLICABILITY AND CRITERIA

Complete this section for any pre-application consultation related to this proposed Oil and Gas Location that occurred prior to the submission of this Form 2A. If a pre-application Formal Consultation Process occurred, attach a Consultation Summary.

Does the proposed Oil and Gas Location meet any of the criteria listed in Rule 304.b.(2)B? No

If YES, indicate by checking the box for every Rule 304.b.(2).B criterion met by this proposed Location, and attach an ALA. See Rule 304.b.(2).B.i-x for full text of criteria.

- i. WPS < 2,000 feet from RBU/HOBU
- ii. WPS < 2,000 feet from School/Child Care Center
- iii. WPS < 1,500 feet from DOAA
- iv. WPS < 2,000 feet from jurisdictional boundary and PLG objects/requests ALA
- v. WPS within a Floodplain
- vi.aa. WPS within a surface water supply area
- vi.bb. WPS < 2,640 feet from Type III or GUDI well
- vii. WPS within/immediately upgradient of wetland/riparian corridor
- viii. WPS within HPH and CPW did not waive
- ix. Operator using Surface bond
- x. WPS < 2,000 feet from RBU/HOBU/School within a DIC

Is the proposed Oil and Gas Location within the exterior boundaries of the Southern Ute Indian Reservation, and the Tribe objects to the Location or requests an ALA? If YES, attach an ALA to the Form 2A. No

Operator requests the Director waive the ALA requirement per Rule 304.b.(2).A.i:

Provide an explanation for the waiver request, and attach supporting information (if necessary).

\_\_\_\_\_

### ALTERNATIVE LOCATIONS DASHBOARD

List every alternative location reviewed and included in the ALA. Provide a latitude and longitude for the approximate center of the alternative location, all Rule 304.b.(2).B Criteria met, if a variance would be required to permit the location, and a brief comment on the key points of the alternative location.

304.b.(2).B.i-x Criteria Met:

< No row provided >

### SURFACE & MINERAL OWNERSHIP

Surface Owner Info:

Name: Steve Freese

Phone: (303) 866-3454

Address: 1127 Sherman Street

Fax: \_\_\_\_\_

Address: \_\_\_\_\_

Email: steve.freese@state.co.us

City: Denver State: CO Zip: 80203

Surface Owner at this Oil and Gas Location:  Fee  State  Federal  Indian

- Check only one:  The Operator/Applicant is the surface owner.
- The Operator has a signed Surface Use Agreement for this Location – attach SUA.
- All operations on this Oil & Gas Location will develop the minerals beneath the Location, and the surface owner owns the minerals beneath this Location and is committed to an oil and gas lease – attach lease map or provide lease description.
- All operations on this Oil & Gas Location will develop the minerals beneath the Location, and the Operator intends to use a surface bond per Rule 703 to secure access to this Location – attach lease map or provide lease description.

Surface Owner protection Financial Assurance type: N/A Surety ID Number: \_\_\_\_\_

Mineral Owner beneath this Oil and Gas Location:  Fee  State  Federal  Indian

Minerals beneath this Oil and Gas Location will be developed from or produced to this Oil and Gas Location: Yes

Lease description if necessary: T5N-R62W, Sec. 2: Lots 1-4, S2N2, S2 (All)

## SITE EQUIPMENT LIST

Indicate the number and type of major equipment components planned for use on this Oil and Gas Location:

Wells	<u>19</u>	Oil Tanks	<u>0</u>	Condensate Tanks	<u>0</u>	Water Tanks	<u>0</u>	Buried Produced Water Vaults	<u>0</u>
Drilling Pits	<u>0</u>	Production Pits	<u>0</u>	Special Purpose Pits	<u>0</u>	Multi-Well Pits	<u>0</u>	Modular Large Volume Tank	<u>0</u>
Pump Jacks	<u>0</u>	Separators	<u>11</u>	Injection Pumps	<u>0</u>	Heater-Treaters	<u>0</u>	Gas Compressors	<u>0</u>
Gas or Diesel Motors	<u>0</u>	Electric Motors	<u>0</u>	Electric Generators	<u>0</u>	Fuel Tanks	<u>0</u>	LACT Unit	<u>0</u>
Dehydrator Units	<u>0</u>	Vapor Recovery Unit	<u>0</u>	VOC Combustor	<u>0</u>	Flare	<u>0</u>	Enclosed Combustion Devices	<u>0</u>
Meter/Sales Building	<u>4</u>	Pigging Station	<u>3</u>	Vapor Recovery Towers	<u>0</u>				

## OTHER PERMANENT EQUIPMENT

Permanent Equipment Type	Number
I/A Separator	1
Transformer	1
Line Heater	2
Automation System	1
Maintenance Tank (400 bbl)	1

## OTHER TEMPORARY EQUIPMENT

Temporary Equipment Type	Number
500-bbl Frac Tanks	11
Temporary Incinerator	1
Temporary Separators	4

## GAS GATHERING COMMITMENT

Operator commits to connecting to a gathering system by the Commencement of Production Operations? Yes

If the answer is NO, a Gas Capture Plan consistent with the requirements of Rule 903.e MUST be attached on the Plans tab.

## FLOWLINE DESCRIPTION

Per Rule 304.b.(6), provide a description of all onsite and off-location oil, gas, and/or water flowlines.

Each proposed well on the State Antelope B-2 Pad would have a 2 to 3-inch outer diameter (OD), steel flowline going from the well head to a separator. From each separator there would be the following pipelines (all the streams will combine by corresponding product – gas, oil, water):

-4 to 6-inch OD, steel, gas gathering pipeline that will tie into the existing Bronco pipeline west of the Location. The gas gathering line will use the existing pipeline corridor and require less than 100 feet of linear disturbance.

-Approximately 8,050 feet of new, 3 to 4-inch OD, steel, gas lift pipeline from the existing Fiducial 6-62-34-35 pad to the Location to be constructed within an existing pipeline corridor; and

- Approximately 4,250 feet of new, 4 to 6-inch OD, co-located composite water pipeline and oil pipeline that would go from the Location to the existing State Antelope O-1 CPF. This pipeline would also be constructed within an existing pipeline corridor.

## CULTURAL DISTANCE AND DIRECTION

Provide the distance and direction to the nearest cultural feature as measured from the edge of the Working Pad Surface.

	Distance	Direction	Rule 604.b Conditions Satisfied (check all that apply):			Details of Condition(s)	604.b. (4)
			604.b. (1)	604.b. (2)	604.b. (3)		
Building:	5280 Feet	N					
Residential Building Unit (RBU):	5280 Feet	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
High Occupancy Building Unit(HOBU)	5280 Feet	SW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Designated Outside Activity Area:	5280 Feet	SW					
Public Road:	5280 Feet	SW					
Above Ground Utility:	1036 Feet	N					
Railroad:	5280 Feet	SW					
Property Line:	104 Feet	W					
School Facility:	5280 Feet	SW					
Child Care Center:	5280 Feet	SW					
Disproportionately Impacted (DI) Community:	5280 Feet	SW					
RBU, HOBU, or School Facility within a DI Community.	5280 Feet	SW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>

## RULE 604.a.(2). EXCEPTION LOCATION REQUEST

- Operator requests an Exception Location Request from Rule 604.a.(2) [well is less than 150 feet from a property line]. Exception Location Request Letter and Waiver signed by offset Surface Owner(s) must be attached.

## CULTURAL FEATURE INFORMATION REQUIRED BY RULE 304.b.(3).B.

Provide the number of each Cultural feature identified within the following distances, as measured from the Working Pad Surface:

	0-500 feet	501-1,000 feet	1,001-2,000 feet
Building Units	0	0	0
Residential Building Units	0	0	0
High Occupancy Building Units	0	0	0
School Properties	0	0	0
School Facilities	0	0	0
Designated Outside Activity Areas	0	0	0

## CONSTRUCTION

Size of disturbed area during construction in acres: 11.92

Size of location after interim reclamation in acres: 6.00

Estimated post-construction ground elevation: 4645

## DRILLING PROGRAM

Will a closed-loop drilling system be used? Yes

Is H2S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No If YES, attach H2S Drilling Operations Plan.

Will salt sections be encountered during drilling: No

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

Will oil based drilling fluids be used? Yes

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Method: Commercial Disposal

Cutting Disposal: OFFSITE Cuttings Disposal Method: Commercial Disposal

Other Disposal Description:

N/A

Beneficial reuse or land application plan submitted? No

Reuse Facility ID: \_\_\_\_\_ or Document Number: \_\_\_\_\_

Centralized E&P Waste Management Facility ID, if applicable: \_\_\_\_\_

## CURRENT LAND USE

Current Land Use: check all that apply per Rule 304.b.(9).

Crop Land:  Irrigated  Non-Irrigated  Conservation Resource Program (CRP)

Non-Crop Land:  Rangeland  Forestry  Recreation  Other

Subdivided:  Industrial  Commercial  Residential

Describe the current land use:

Rangeland

Describe the Relevant Local Government's land use or zoning designation:

Ag-Rural Planning Area

Describe any applicable Federal land use designation:

N/A

## FINAL LAND USE

Final Land Use: check all that apply per Rule 304.b.(9).

Crop Land:  Irrigated  Non-Irrigated  Conservation Resource Program (CRP)

Non-Crop Land:  Rangeland  Forestry  Recreation  Other

Subdivided:  Industrial  Commercial  Residential

## REFERENCE AREA INFORMATION

If Final Land Use includes Non-Crop Land (as checked above), the following information is required:

Describe landowner's designated final land use(s):

Rangeland

Reference Area Latitude: 40.430205

Reference Area Latitude: -104.299361

Provide a list of plant communities and dominant vegetation found in the Reference Area.

Plant Community	Dominant vegetation
Native Grassland	blue gramma (Bouteloua gracilis)
Native Grassland	needle-and-thread-grass (Hesperostipa comata)
Native Grassland	western wheatgrass (Pascopyrum smithii)
Native Grassland	sand sagebrush (Artemisia filifolia)
Native Grassland	prairie sandreed (Calamovilfa longifolia)
Native Grassland	western wheatgrass (Pascopyrum smithii)

Noxious weeds present: Yes

## SOILS

List all soil map units that occur within the maximum extent of the proposed Oil and Gas Location. Attach the National Resource Conservation Service (NRCS) report showing the "Map Unit Description" listing the typical vertical soil profile(s). This data is to be used when segregating topsoil.

The required information can be obtained from the NRCS website at <https://www.nrcs.usda.gov/wps/portal/nrcs/surveylist/soils/survey/state/> or from the COGCC website GIS Online map page. Instructions are provided within the COGCC website help section.

NRCS Map Unit Name: Osgood sand, 0 to 3 percent slopes

NRCS Map Unit Name: Valent sand, 3 to 9 percent slopes

NRCS Map Unit Name:

## GROUNDWATER AND WATER WELL INFORMATION

Provide the distance and direction, as measured from the Working Pad Surface, to the nearest:

water well: 5280 Feet SE

Spring or Seep: 5280 Feet S

Estimated depth to shallowest groundwater that can be encountered at this Oil and Gas Location: 17 Feet

Basis for estimated depth to and description of shallowest groundwater occurrence:

Average depth to water from three closest known water wells.

## SURFACE WATER AND WETLANDS

Provide the distance and direction to the nearest downgradient surface Waters of the State, as defined 8248 Feet SE

in the 100-Series Rules, measured from the Working Pad Surface:

If less than 2,640 feet, is the Waters of the State identified above within 15 stream miles upstream of a Public Water

System intake? No

Provide the distance and direction to the nearest downgradient wetland, measured from the Working

Pad Surface: 7078 Feet SE

Provide a description of the nearest downgradient surface Waters of the State:

Nearest downgradient wetland is approximately 7,078 ft SE along migration corridor.

If the proposed Oil and Gas Location is within a Rule 411.a Surface Water Supply Area buffer zone, select the buffer zone type: \_\_\_\_\_

Public Water System Administrator - Contact Name \_\_\_\_\_ Email \_\_\_\_\_

If the proposed Oil and Gas Location is within a Rule 411.b GUDI/Type III buffer zone, select the buffer zone type: \_\_\_\_\_

Public Water System Administrator - Contact Name \_\_\_\_\_ Email \_\_\_\_\_

Is a U.S. Army Corps of Engineers Section 404 permit required for the proposed Oil and Gas Location, access road, or associated pipeline corridor? No

If a U.S. Army Corps of Engineers Section 404 permit is required, provide the permit status, and permit number if available:

N/A

Is the Location within a Floodplain? No Floodplain Data Sources Reviewed (check all that apply):

Federal (FEMA)  State  County  Local

Other \_\_\_\_\_

Does this proposed Oil and Gas Location lie within a Sensitive Area for water resources, as defined in the 100-Series Rules? No

## CONSULTATION, WAIVERS, AND EXCEPTIONS

When Rule 309.e.(2) Consultation must occur, check all that apply:

- This location is included in a Wildlife Mitigation Plan
- This Oil and Gas Location or associated new access road, utility, or pipeline corridor falls within federally designated critical habitat or an area with a known occurrence for a federal or Colorado threatened or endangered species. Provide description in Comments section of Submit tab.
- This Oil and Gas Location or associated new access road, utility, or pipeline corridor falls within an existing conservation easement established wholly or partly for wildlife habitat. Provide description in Comments section of Submit tab.

When Rule 309.e.(3) Consultation is not required, check all that apply:

- This Oil and Gas Location has been included in a previously approved, applicable Wildlife Protection Plan.
- This Oil and Gas Location has been included in a previously approved, applicable Wildlife Mitigation Plan.
- This Oil and Gas Location has been included in a previously approved, applicable conservation plan.

Pre-application Consultation:

- A pre-application consultation with CPW, regarding this Oil and Gas Location, occurred \_\_\_\_\_ on:

**CPW Waivers and Exceptions (check all that apply and attach all CPW waivers to this Form 2A):**

- The applicant has obtained a Rule 304.b.(2).B.viii CPW waiver for the requirement to complete an ALA.
- The applicant has obtained a Rule 309.e.(2).G CPW waiver and consultation is not required.

- The applicant has obtained a Rule 309.e.(5).D.i CPW waiver and is requesting an exception from Rule 1202.c.(1).R.
- The applicant has obtained a Rule 309.e.(5).D.ii CPW waiver and is requesting an exception from Rule 1202.c.(1).S.
- The applicant has obtained a Rule 309.e.(5).D.iii CPW waiver of Rule 1202.c.(1).T.
- The applicant has obtained a Rule 309.e.(5).D.iv CPW waiver and is requesting an exception from Rule 1202.c.(1) in accordance with an approved CAP.
- The applicant has obtained a Rule 1202.a CPW waiver.
- The applicant has obtained a Rule 1202.b CPW waiver.
- In accordance with Rule 1203.a.(3), the applicant requests an exception from compensatory mitigation Rule(s): \_\_\_\_\_

**HIGH PRIORITY HABITAT AND COMPENSATORY MITIGATION**

This Oil and Gas Location, associated access roads, utility, or Pipeline corridor falls wholly or partially within the following High Priority Habitats (Note: dropdown options are abbreviated - see Rule 1202 for full rule text):

< No row provided >

The following questions are for Oil and Gas Locations that cause the density to exceed one Oil and Gas Location per square mile in Rule 1202.d High Priority Habitat:

**Direct Impacts:**

- Is Compensatory Mitigation required per Rule 1203.a for this Oil and Gas Location? No
- Is a Compensatory Mitigation Plan proposed to address direct impacts for this Oil and Gas Location? No
- Have all Compensatory Mitigation Plans been approved for this Location? No
- If not, what is the current status of each Plan?

- Is a Compensatory Mitigation Fee proposed for this Oil and Gas Location? No
- Direct impact habitat mitigation fee amount: \$ \_\_\_\_\_

**Indirect Impacts:**

- Is Compensatory Mitigation required per Rule 1203.d for this Oil and Gas Location? No
- Is a Compensatory Mitigation Plan proposed to address indirect impacts for this Oil and Gas Location? No
- Have all Compensatory Mitigation Plans been approved for this Location? No
- If not, what is the current status of each Plan?

- Is a Compensatory Mitigation Fee proposed for this Oil and Gas Location? No
- Indirect impact habitat mitigation fee amount: \$ \_\_\_\_\_

**Operator Proposed Wildlife BMPs**

No BMP

**AIR QUALITY MONITORING PROGRAM**

Will the Operator install and administer an air quality monitoring program at this Location? Yes

## Operator Proposed BMPs

No BMP

## PLANS

Total Plans Uploaded:   12  

- (1) Emergency Spill Response Program consistent with the requirements of Rules 411.a.(4).B, 411.b.(5).B, & 602.j
- (2) Noise Mitigation Plan consistent with the requirements of Rule 423.a
- (3) Light Mitigation Plan consistent with the requirements of Rule 424.a
- (4) Odor Mitigation Plan consistent with the requirements of Rule 426.a
- (5) Dust Mitigation Plan consistent with the requirements of Rule 427.a
- (6) Transportation Plan
- (7) Operations Safety Management Program consistent with the requirements of Rule 602.d
- (8) Emergency Response Plan consistent with the requirements of Rule 602.j
- (9) Flood Shut-In Plan consistent with the requirements of Rule 421.b.(1)
- (10) Hydrogen Sulfide Drilling Operations Plan consistent with the requirements of Rule 612.d
- (11) Waste Management Plan consistent with the requirements of Rule 905.a.(4)
- (12) Gas Capture Plan consistent with the requirements of Rule 903.e
- (13) Fluid Leak Detection Plan
- (14) Topsoil Protection Plan consistent with the requirements of Rule 1002.c
- (15) Stormwater Management Plan consistent with the requirements of Rule 1002.f
- (16) Interim Reclamation Plan consistent with the requirements of Rule 1003
- (17) Wildlife Plan consistent with the requirements of Rule 1201
- (18) Water Plan
- (19) Cumulative Impacts Plan
- (20) Community Outreach Plan
- (21) Geologic Hazard Plan

## VARIANCE REQUESTS

Check all that apply:

- This proposed Oil and Gas Location requires the approval of a Rule 502.a variance from COGCC Rule or Commission  
Order number: \_\_\_\_\_

ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).

## RULE 304.d LESSER IMPACT AREA EXEMPTION REQUESTS

Check the boxes below for all Exemptions being requested. Lesser Impact Area Exemption Request must be attached, and will include all requested exemptions.

- |  |  |
|--|--|
| <input type="checkbox"/> 304.b.(1). Local Government Siting Information      | <input type="checkbox"/> 304.c.(1). Emergency Spill Response Program           |
| <input type="checkbox"/> 304.b.(2). Alternative Location Analysis            | <input checked="" type="checkbox"/> 304.c.(2). Noise Mitigation Plan           |
| <input type="checkbox"/> 304.b.(3). Cultural Distances                       | <input checked="" type="checkbox"/> 304.c.(3). Light Mitigation Plan           |
| <input type="checkbox"/> 304.b.(4). Location Pictures                        | <input type="checkbox"/> 304.c.(4). Odor Mitigation Plan                       |
| <input type="checkbox"/> 304.b.(5). Site Equipment List                      | <input type="checkbox"/> 304.c.(5). Dust Mitigation Plan                       |
| <input type="checkbox"/> 304.b.(6). Flowline Descriptions                    | <input type="checkbox"/> 304.c.(6). Transportation Plan                        |
| <input type="checkbox"/> 304.b.(7). Drawings                                 | <input type="checkbox"/> 304.c.(7). Operations Safety Management Program       |
| <input type="checkbox"/> 304.b.(8). Geographic Information System (GIS) Data | <input type="checkbox"/> 304.c.(8). Emergency Response Plan                    |
| <input type="checkbox"/> 304.b.(9). Land Use Description                     | <input type="checkbox"/> 304.c.(9). Flood Shut-In Plan                         |
| <input type="checkbox"/> 304.b.(10). NRCS Map Unit Description               | <input type="checkbox"/> 304.c.(10). Hydrogen Sulfide Drilling Operations Plan |
| <input type="checkbox"/> 304.b.(11). Best Management Practices               | <input type="checkbox"/> 304.c.(11). Waste Management Plan                     |
| <input type="checkbox"/> 304.b.(12). Surface Owner Information               | <input type="checkbox"/> 304.c.(12). Gas Capture Plan                          |
| <input type="checkbox"/> 304.b.(13). Proximate Local Government              | <input type="checkbox"/> 304.c.(13). Fluid Leak Detection Plan                 |
| <input type="checkbox"/> 304.b.(14). Wetlands                                | <input type="checkbox"/> 304.c.(14). Topsoil Protection Plan                   |
| <input type="checkbox"/> 304.b.(15). Schools and Child Care Centers          | <input type="checkbox"/> 304.c.(15). Stormwater Management Plan                |
|  | <input type="checkbox"/> 304.c.(16). Interim Reclamation Plan                  |
|  | <input type="checkbox"/> 304.c.(17). Wildlife Plan                             |
|  | <input type="checkbox"/> 304.c.(18). Water Plan                                |
|  | <input type="checkbox"/> 304.c.(19). Cumulative Impacts Plan                   |
|  | <input type="checkbox"/> 304.c.(20). Community Outreach Plan                   |
|  | <input type="checkbox"/> 304.c.(21). Geologic Hazard Plan                      |

## OPERATOR COMMENTS AND SUBMITTAL

Comments

The State Antelope B-2 Pad is an expansion of an existing location. This expansion limits the amount of surface disturbance associated with a new location and also utilizes existing pipeline corridors to connect this proposed feeder pad to an existing Centralized Production Facility (CPF).

Any decimal point placement variations between e-form fields and associated management plans are due to rounding and e-form data entry character limitations.

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

Signed: \_\_\_\_\_ Date: 07/20/2021 Email: spark@bonanzacrk.com

Print Name: Scott Park Title: Director

Based on the information provided herein, this Oil and Gas Location Assessment complies with COGCC Rules, applicable orders, and SB 19-181 and is hereby approved.

COGCC Approved: \_\_\_\_\_ Director of COGCC Date: \_\_\_\_\_

## 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**

**Best Management Practices**

**No BMP/COA Type**

**Description**

1	General Housekeeping	Waste Management- General housekeeping will consist of neat and orderly storage of materials and fluids. Wastes will be temporarily stored in sealed containers and regularly collected and disposed of at offsite, permitted facilities. If spills occur, cleanup will be implemented within 24-48 hours, as appropriate, to minimize any commingling of waste materials with storm water runoff. Routine maintenance will be limited to fueling and lubrication of equipment. Any waste product from maintenance will be containerized and transported offsite for disposal or recycling. There will be no major equipment overhauls conducted onsite. Equipment will be transported offsite for major overhauls. Cleanup will consist of patrolling the roadways, access areas, and other work areas to pick up trash, scrap debris, other discarded materials, and any contaminated soil.
2	Storm Water/Erosion Control	Storm Water Control - Storm water controls will be constructed around the perimeter of the site prior to construction. Typically, Operator utilizes a ditch and berm system of storm water controls on location. BMP's used are determined just prior to construction by a third party storm water contractor and may vary according to the location. Storm water controls will remain in place until the pad reaches final reclamation.
3	Material Handling and Spill Prevention	Pipeline Protection- Operator Shall use protective barriers at pipeline risers when they are adjacent to areas with onsite traffic.
4	Material Handling and Spill Prevention	Separation Equipment Containment - Operator shall use separators with built-in containment to protect shallow groundwater, placed within lined secondary containment.
5	Material Handling and Spill Prevention	Leak Detection Plan - Operator shall have personnel on location daily conducting routine operations and maintenance activity. If any leaks occur on site, they will be quickly identified and mitigated by operator's personnel. Operator shall use SCADA information systems that have the ability to remotely monitor well production and shut in wells to stop a fluid release during upset conditions.
6	Material Handling and Spill Prevention	Pigging Activity- Operator shall conduct closed loop pigging to the oil pipeline, gas lift pipeline, and gas gathering pipeline for this operation. This practice removes paraffin's and deposits deposits in the pipeline without open-ended liquid collection. The deposits are flushed through the active pipelines to the production equipment. This practice reduces the potential for releases and emissions related to open loop methods. Operator shall use a small containment under the receiver when removing the pig to reduce the potential for spills.
7	Material Handling and Spill Prevention	Removal of Onsite Produced Fluid Storage - To protect shallow groundwater and nearby surface water, Operator shall transfer, via flowlines, produced fluids to an offsite location for storage or final transportation to sales/disposal. This does not include the maintenance tank which is for well maintenance and only stores produced fluid temporarily for final disposal.
8	Material Handling and Spill Prevention	Maintenance Tank Containment - Operator shall construct maintenance tanks inside lined containment. The containment will be constructed to hold the entire contents of the maintenance tank in the event of a potential fluid release plus sufficient freeboard for precipitation. The precipitation amount for the 25-year, 24-hour storm in Weld County, Colorado is assumed to be 3.4 inches
9	Material Handling and Spill Prevention	Offsite Produced Liquid Storage - To further reduce the risk of release, Operator will route all produced fluids offsite to a central production facility outside the floodplain approx.

10	Dust control	<p>BCEOC will employ practices for continuous control of fugitive dust caused by operations. These practices shall include but are not limited to:</p> <ul style="list-style-type: none"> <li>- The use of speed restrictions.</li> <li>- Regular road maintenance.</li> <li>- Restriction of construction activity during high-wind days.</li> <li>- BCEOC will provide dust control, during new location construction, around tanks and wellheads, and on lease roads if excess dust is present with a temporary suppressant such as water.</li> <li>- BCEOC uses a gravity fed box proppant delivery system that meets OSHA standards, rather than the historic pneumatic trailer proppant transfer system that blows sand out of the trailer into frac sand silos on the location; a method that required supplemental dust control to meet OSHA requirements. With a gravity fed proppant delivery system, the delivery container is also a well pad storage container, eliminating the need for frac sand silos on location. Storing frac sand in containers reduces sand dust during fracturing operations by dropping sand directly from the container into the blender sand hopper.</li> <li>- Automation is used on all new wells to minimize truck traffic.</li> </ul>
11	Construction	<p>Construction - Operator shall construct this location with a compacted road base surface. This surface is at least 4 inches thick and compacted to prevent surface degradation from drilling and production activity and traffic. This layer of road base protects shallow groundwater by containing liquids and preventing vertical migration of a potential spill.</p>
12	Emissions mitigation	<ul style="list-style-type: none"> <li>- BCEOC will not flare produced gas during normal operations.</li> <li>- BCEOC will use supervisory control and data acquisition (SCADA) systems to monitor well operations, which will reduce emissions from vehicle traffic due to the reduced number of vehicle trips to the site.</li> <li>- BCEOC has an 24/7 Field Monitoring (FMR) that allows for continuous monitoring operating conditions when personnel are not on-site in order to identify and correct any improper operations as soon as possible.</li> <li>- BCEOC has a Preventative Maintenance (PM) program that contributes to the decrease in fugitive emissions and spills related to non-functioning or aging equipment.</li> <li>- BCEOC will implement a Leak Detection and Repair program (LDAR) including monthly inspections using infrared (e.g., FLIR) cameras.</li> <li>- As BCEOC is committed to closed-loop drilling there will be no emission-producing reserve pits.</li> </ul>
13	Drilling/Completion Operations	<p>Closed Loop Drilling - Operator shall utilize a closed loop drilling system</p>
14	Drilling/Completion Operations	<p>Green Completions (Rule 604.c.(2)C.) - Operator shall install test separators, associated flow lines, sand traps, and emission control systems to accommodate green completions techniques. When commercial quantities of salable quality gas are achieved at each well, the gas shall be immediately directed to a sales line or shut in and conserved. If a sales line is unavailable or other conditions prevent placing the gas into a sales line, BCEOC shall not produce the wells without an approved variance per Rule 805.b.(3)C.</p>
15	Drilling/Completion Operations	<p>Flowback Activity Containment - Operator Shall utilize portable containment beneath temporary produced liquid storage tanks. This will protect shallow groundwater from any potential spills during completions activity. When flowback activity is complete, the containment and temporary produced liquid storage tanks will be removed and transferred to the next location.</p>
16	Drilling/Completion Operations	<p>Completions Activity Containment - Operator will utilize portable containment beneath the liquid storage and mixing equipment. Containment will be constructed in a manner consistent with good engineering practices to prevent migration of contaminants into the underlying soil and groundwater.</p>
17	Drilling/Completion Operations	<p>Drilling Activity Containment - Operator shall utilize a portable containment liner under the drilling rig during drilling activities. This protects shallow groundwater from any potential spills surrounding the rig during drilling. A liquid release would simply be vacuumed up from the liner. When drilling activity is completed, the liner is removed and transferred to the next drilling location.</p>

18	Drilling/Completion Operations	This Form 2A has been approved prior to approval of the Spacing Units. If the final agency action is denial of the Spacing Units then the operator shall abandon this Oil and Gas Location by submitting a Form 4 Sundry within 45 days of the agency denial; however, if Location construction has commenced, then the Location will be immediately subject to final reclamation.
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Total: 18 comment(s)

### Attachment List

<u>Att Doc Num</u>	<u>Name</u>
402752524	CULTURAL FEATURES MAP
402752529	LOCATION PICTURES
402752532	LOCATION DRAWING
402752544	ACCESS ROAD MAP
402752552	DISPROPORTIONATELY IMPACTED COMMUNITY MAP
402752594	TOPO MAP
402752636	ALA NARRATIVE SUMMARY
402810271	SURFACE AGRMT/SURETY
402810305	LAYOUT DRAWING
402810306	RELATED LOCATION AND FLOWLINE MAP
402810307	DIRECTIONAL WELL PLAT
402810311	HYDROLOGY MAP
402826680	LOCATION AND WORKING PAD GIS SHP
402847142	REFERENCE AREA MAP
402847145	REFERENCE AREA PICTURES
402860649	WILDLIFE HABITAT DRAWING
402860650	GEOLOGIC HAZARD MAP
402862428	PRELIMINARY PROCESS FLOW DIAGRAMS
402878448	NRCS MAP UNIT DESC
402887829	LESSER IMPACT AREA EXEMPTION REQUEST

Total Attach: 20 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
OGLA	Discussed with Operator for missing attachments.	10/19/2021

Total: 1 comment(s)

**Public Comments**

No public comments were received on this application during the comment period.

