

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



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:

**438984**

Expiration Date:

**09/18/2017**

☐ 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: 10150

Name: BLACK HILLS PLATEAU PRODUCTION LLC

Address: 1515 WYNKOOP ST STE 500

City: DENVER    State: CO    Zip: 80202

Contact Information

Name: Jessica Donahue

Phone: (720) 210-1333

Fax: (303) 566-3344

email: Jessica.Donahue@blackhillscorp.com

RECLAMATION FINANCIAL ASSURANCE

☒ Plugging and Abandonment Bond Surety ID: 20060007    ☐ Gas Facility Surety ID: \_\_\_\_\_

☐ Waste Management Surety ID: \_\_\_\_\_

LOCATION IDENTIFICATION

Name: Debeque Station    Number: Water Facility

County: MESA

Quarter: SESW    Section: 29    Township: 8S    Range: 97W    Meridian: 6    Ground Elevation: 5050

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: 0 feet FSL from North or South section line

2578 feet FWL from East or West section line

Latitude: 39.323770    Longitude: -108.242530

PDOP Reading: 2.3    Date of Measurement: 10/19/2012

Instrument Operator's Name: D. Jenkins, PLS

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)

312518	
312741	
312381	
312490	
312687	
312627	
312515	
312667	
312514	
312616	
312617	
312496	
312407	
323859	
312642	
312638	
432260	
312629	
312619	
312621	
312525	
311743	
312668	
312486	
312446	
312544	
312564	
312742	
312605	
312526	
312570	
312417	
312457	
312656	
312677	
312676	
312577	
312630	
312625	
312653	
312427	
312481	
312516	
312669	
312635	
312568	
312419	
312433	
312743	
312623	

Production Facilities Location serves Well(s)

312657

312665

312637

312733

312414

312631

334277

312618

312633

312739

312652

312737

312567

312473

312634

334277

312483

312532

312519

312456

311744

312624

312477

312622

312497

312626

312460

312542

312463

432255

429734

312619

312620

312636

312436

312445

312555

312565

312524

312418

312615

312400

312485

312404

Well Site is served by Production Facilities

311760

312632

## FACILITIES

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

Wells _____	Oil Tanks _____	Condensate Tanks _____	Water Tanks _____	Buried Produced Water Vaults _____ 2
Drilling Pits _____	Production Pits _____	Special Purpose Pits _____ 3	Multi-Well Pits _____	Temporary Large Volume Above Ground Tanks _____
Pump Jacks _____	Separators _____ 2	Injection Pumps _____	Cavity Pumps _____	
Gas or Diesel Motors _____	Electric Motors _____ 4	Electric Generators _____	Fuel Tanks _____	Gas Compressors _____
Dehydrator Units _____	Vapor Recovery Unit _____	VOC Combustor _____	Flare _____	LACT Unit _____
				Pigging Station _____ 1

## OTHER FACILITIES

### Other Facility Type

### Number

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Per Rule 303.b.(3)C, description of all oil, gas, and/or water pipelines:

Water pipelines will be 8" or 10" pressurized pipe that conveys raw and produced water from the facilities to developed gas wells.

## CONSTRUCTION

Date planned to commence construction: 09/22/2014 Size of disturbed area during construction in acres: 23.52  
Estimated date that interim reclamation will begin: 06/19/2015 Size of location after interim reclamation in acres: 23.52  
Estimated post-construction ground elevation: 5050

## DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: \_\_\_\_\_

Is H<sub>2</sub>S anticipated? \_\_\_\_\_

Will salt sections be encountered during drilling: \_\_\_\_\_

Will salt based mud (>15,000 ppm Cl) be used? \_\_\_\_\_

Will oil based drilling fluids be used? \_\_\_\_\_

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: \_\_\_\_\_ Drilling Fluids Disposal Method: \_\_\_\_\_

Cutting Disposal: \_\_\_\_\_ Cuttings Disposal Method: \_\_\_\_\_

Other Disposal Description:

Beneficial reuse or land application plan submitted? \_\_\_\_\_

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

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

## SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: Red Rock Gathering Co.

Phone: 970-440-1006

Address: 2128 Railroad Ave

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

Address: Suite 106

Email: tjensen@summitmidstream.com

City: Rifle State: CO Zip: 81650

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: No

The right to construct this Oil and Gas Location is granted by: Surface Use Agreement

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: 692 Feet

Building Unit: 1052 Feet

High Occupancy Building Unit: 5280 Feet

Designated Outside Activity Area: 5280 Feet

Public Road: 167 Feet

Above Ground Utility: 132 Feet

Railroad: 5280 Feet

Property Line: 47 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 be 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: #12-Bunkwater very fine sandy loam, 1 to 8 percent slopes.

NRCS Map Unit Name: #32-Dominguez clay loam, 3 to 8 percent slopes.

NRCS Map Unit Name: #78 Youngston loam, 1 to 6 percent slopes.

## 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: 06/05/2013

List individual species: No noxious weeds identified during field observation

## 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: 366 Feet

water well: 1307 Feet

Estimated depth to ground water at Oil and Gas Location 300 Feet

Basis for depth to groundwater and sensitive area determination:

Soil boring logs; depth to ground water is >30 feet and based on nearby water wells is estimated to be approximately 300' below ground surface (bgs). Depth to first water-bearing zone for domestic/commercial use ranges from 220' bgs to 370' bgs. Static water levels range from 27' bgs to 106' bgs.

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 N/A

## 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: No visible improvements within 500'.

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

Signed: \_\_\_\_\_ Date: 03/03/2014 Email: Jessica.Donahue@blackhillscorp.com

Print Name: Jessica Donahue Title: Regulatory Technician

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: 9/19/2014

### 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

The following conditions of approval (COAs) will apply for nearby well pad locations that will use fluids from and return fluids to this pit:

Notify the COGCC 48 hours prior to start of all hydraulic stimulation operations for nearby well pad locations that will use fluids from and return fluids to this pit using the Form 42 (the appropriate COGCC individuals will automatically be email notified, including the LGD for hydraulic stimulation operations).

Flowback and stimulation fluids from the wells/pads being completed using fluids from this pit (if applicable) must be sent to tanks, separators, or other containment/filtering equipment before the fluids can be placed into any pipeline or storage vessel, or lined pit (only if an amended Form 2A has been submitted/approved and a Form 15 Earthen Pit Permitted has been submitted/approved) located on the well pad; or into tanker trucks for delivery back to this pit. The flowback and stimulation fluid tanks, separators, or other containment/filtering equipment must be placed on the well pad in an area constructed to be sufficiently impervious to contain any spilled or released material.

The following conditions of approval (COAs) will apply to both the Form 2A and the Form 15 Pit Permit for any temporary surface pipelines (poly or steel) and permanent buried pipelines (poly or steel) that are used either at the pit site or at nearby well pad locations that will use fluids from and return fluids to this pit during completion operations:

Operator shall pressure test pipelines in accordance with Rule 1101.e.(1) prior to putting into initial service any temporary surface or permanent buried pipelines and following any reconfiguration or repair of the pipeline network.

Operator must visually inspect the entire length of the surface pipeline to ensure integrity. Operator shall conduct daily inspections of surface poly pipeline routes for leaks during active transfer of fluids and implement best management practices to contain any unintentional release of fluids along all portions of the surface pipelines where temporary pumps and other necessary equipment are located. Operator will endeavor to minimize surface disturbance during pipeline monitoring. In addition, pump stations along the surface poly or steel pipeline route will be continuously monitored when operating in order to swiftly respond to such a failure.

Operator must ensure no release of fluids at all stream, intermittent stream, ditch, and drainage crossings. For these crossings: operator will ensure appropriate containment by either installing over-sized pipe "sleeves" which extend the length of the crossing and beyond to either lined catchment basins or to a distance deemed adequate to capture and/or divert any possible release of fluids and prevent fluids from reaching the stream or drainage; or installing catchment basins with diversion/secondary containment structures that would be sized to contain the volume of fluid that might be released between the surface water and the closest shut off mechanism. Pump stations along the surface poly pipeline route will be continuously monitored when operating in order to swiftly respond to such a release. Another option would be to install over-sized pipe "sleeves" which extend the length of the crossing and installing shut off valves on either side of crossing instead of catchment basins.

Operator will utilize, to the extent practical, all existing access and other public roads, and/or existing pipeline right-of-ways, when placing/routing the surface pipelines. This will reduce surface disturbance and fragmentation of wildlife habitat in the area.

Pit Construction: The following conditions of approval (COAs) will apply to both the Form 2A and the Form 15 Earthen Pit Permit for the pit:

The multi-well pit must be double-lined as shown on the Construction Layout Drawings and the liners must be in compliance with Rule 904. PIT LINING REQUIREMENTS AND SPECIFICATIONS; including Rule 904.d. which states liner thickness, anchoring, and foundation requirements; and Rule 904.e. which states that the pit will have a leak detection system.

Delivery and vacuum truck hoses shall not be allowed to be placed directly onto the pit liner. Operator will construct a loading/unloading station located next to the pit, to deliver fluids to or remove fluids from the pit by truck. The loading/unloading station shall be designed and utilized to prevent hoses from being dropped into the pits and dragged over the liner, which could lead to liner damage. The loading/unloading station will be the only permitted access for manual fluids transfers to or from the pit. Vehicles will not be allowed to approach the pit any closer than the loading/unloading station. Each station will have a catch basin in case a leak occurs while operations personnel are connecting or disconnecting hoses. Signs clearly marking the truck loading/unloading station shall be provided and maintained by the operator.

After installation of the uppermost liner and prior to operating the pit, the synthetic liner (s) shall be tested by filling the pit with at least 70 percent of operating capacity of water, measured from the base of the pit (not to exceed the 2-foot freeboard requirement). The operator shall monitor the pit for leaks for a period of 72 hours prior to either draining the pit for repair or commencing operations. Operator shall notify the COGCC 48 hours prior to start of the hydrotest using the Form 42. Hydrotest monitoring results must be maintained by the operator for the life of the pit and provided to COGCC prior to using the pit via Form 4 Sundry. A successful hydrotest must be completed prior to using the pit to store E&P waste.

Operator shall submit a Colorado P.E. approved/stamped as-built drawing (at a minimum including plan view and cross-sections) of the multi-well pit within 14 days of construction completion certifying the volume of the pit, and the available freeboard.

No portion of any pit that will be used to hold liquids shall be constructed on fill material, unless the pit and fill slope are designed and certified by a Professional Engineer (P.E.), subject to review and approval by the Director prior to construction of the pit. The construction and lining of the pit shall be supervised by a P.E., or their agent. The entire base of the pit must be in cut. Operators must submit a P.E. approved/stamped as-built drawing (plan view and cross sections) of the pit within 14 days of construction.

The multi-well pit must be fenced and netted. The operator must maintain the fencing and netting until the pit is closed.

The operator shall submit, and receive approval of, a reuse and recycling plan per Rule 907.a.(3), prior to any offsite reuse/recycling of pit fluids.

The multi-well pit shall be closed in accordance with Rule 905. Closure of Pits, and Buried or Partially Buried Produced Water Vessels. The operator shall submit a Form 27 for COGCC review and approval prior to commencing pit closure activities. The operator shall also submit a Notice of Completion for COGCC review and approval within 30 days of concluding pit closure activities.

	<p>Pit Site Construction: The following conditions of approval (COAs) will apply to the pit site location:</p> <p>Operator must ensure secondary containment for any volume of fluids contained at pit site during operations; including, but not limited to, construction of a berm or diversion dike, diversion/collection trenches within and/or outside of berms/dikes, site grading, or other comparable measures (i.e., best management practices (BMPs) associated with stormwater management) sufficiently protective of nearby surface water. All BMPs at the pit site location shall be stabilized, inspected at regular intervals (at least every 14 days and after precipitation events), and maintained in operational condition.</p> <p>Due to the very fine-grained nature of surface soils and materials in the area, strategically apply fugitive dust control measures, including enforcing established speed limits on private roads, to reduce fugitive dust and coating of vegetation and deposition in water sources.</p> <p>Operator shall stabilize exposed soils and slopes as an interim measure during operations at this pit site.</p> <p>Berms or other containment devices around crude oil, condensate, and produced water storage tanks shall be constructed to be sufficiently impervious (corrugated steel with poly liner) to contain any spilled or released material.</p> <p>Additional containment shall be required where temporary or permanent pumps and other necessary equipment or chemicals are located.</p> <p>Operator will use adequately sized (per COGCC and SPCC rules) containment devices for all chemicals and/or hazardous materials stored or used on location.</p> <p>No oil is permitted on the surface of fluids stored in the pit. Operator will implement measures to ensure that adequate separation of hydrocarbons from the influent occurs to prevent accumulation of oil on the surface of stored fluids. Operator shall also employ a method for monitoring buildup of phase-separated hydrocarbons on the surface of stored fluids. Any oil detected on the surface shall be removed within 24 hours.</p> <p>The pit will be operated in accordance with the operations plan submitted and any revisions with the Form 28 for the E&amp;P Facility.</p>
	<p>Notify the COGCC 48 hours prior to start of pit site construction, pit liner installation, start of hydrostatic test, start of pit use, and pipeline testing using the Form 42. Black Hills will also need to notify the COGCC 48 hours prior to start of all hydraulic stimulation operations for nearby well pad locations that will use fluids from and return fluids to this pit using the Form 42 (the appropriate COGCC individuals will automatically be email notified, including the LGD for hydraulic stimulation operations).</p> <p>Operator must implement all operations detailed in the operating plan, pit liner installation specifications, and all other attachments to the Form 15 and Form 2A in accordance with the 900-Series Rules.</p> <p>Groundwater Testing: Prior to pit operations, operator shall sample the following water wells (two upgradient and three downgradient) that have been identified by COGCC as being acceptable locations. The initial samples shall be collected prior to pit construction. Follow up sampling shall occur yearly during pit operations and continue for three years after pit closure:</p> <p>UPGRADIENT WELLS:</p> <ol style="list-style-type: none"> <li>1) Permit No. 292780- Red Rock gathering Company LLC; commercial well; TD - 430' bgs; screened interval – 370' to 410' bgs; SWL - 36' bgs; pumping rate – 5 gpm; formation - bedrock; located approximately 1307' to the north-northwest (upgradient);</li> <li>2) Permit No. 279019-Heidel, Kim; domestic well; TD - 344' bgs; screened interval – 244' to 344' bgs; SWL - 106' bgs; pumping rate – 1.5 gpm; formation - bedrock; located approximately 2673' to the west (upgradient);</li> </ol> <p>DOWNGRADIENT WATER WELLS:</p> <ol style="list-style-type: none"> <li>3) Permit No. 45327-Cox, Harry; domestic well; TD - 304' bgs; screened interval – 220' to 270' bgs; SWL - 27' bgs; formation - bedrock; located approximately 2817' to the southeast (downgradient);</li> <li>4) Permit No. 52442-MH-Bluestone Water Conservancy District; monitoring</li> </ol>

well/dewatering well; TD - 30' bgs; screened interval – 10' to 30' bgs; SWL - 10' bgs; pumping rate – 5 gpm; formation - alluvium; located approximately 5876' to the east-southeast (downgradient);

5) Permit No. 52440-DW-Bluestone Water Conservancy District; dewatering well; TD - 30' bgs; screened interval – 10' to 30' bgs; SWL - 10' bgs; pumping rate – 5 gpm; formation -alluvium; located approximately 5998' to the east-southeast (downgradient);

The groundwater samples will be analyze for pH, specific conductance, total dissolved solids (TDS), dissolved gases (methane, ethane, propane), alkalinity (total bicarbonate and carbonate as CaCO<sub>3</sub>), major anions (bromide, chloride, fluoride, sulfate, nitrate and nitrite as N, phosphorus), major cations (calcium, iron, magnesium, manganese, potassium, sodium), other elements (barium, boron, selenium and strontium), presence of bacteria (iron related, sulfate reducing, slime forming), total petroleum hydrocarbons (TPH) and BTEX compounds (benzene, toluene, ethylbenzene and xylenes). Field observations such as odor, water color, sediment, bubbles, and effervescence shall also be documented. The location of the sampled Water Sources shall be surveyed in accordance with Rule 215.

Documented refusal to grant access by well owner or surface owner (for water well), or if no water wells or springs are located/identified within approximately 1.5 miles, shall not constitute a violation of this COA.

Surface water samples (one upstream and one downstream from the multi-well pit location) from the unnamed intermittent streams located approximately 366 feet to the south and 513' to the east of the location (if water is present), shall be collected prior to pit use and every 12 months (until pit closure) to evaluate potential impacts from pit operations. At a minimum, the surface water samples will be analyze for pH, specific conductance, total dissolved solids (TDS), dissolved gases (methane, ethane, propane), alkalinity (total bicarbonate and carbonate as CaCO<sub>3</sub>), major anions (bromide, chloride, fluoride, sulfate, nitrate and nitrite as N, phosphorus), major cations (calcium, iron, magnesium, manganese, potassium, sodium), other elements (barium, boron, selenium and strontium), presence of bacteria (iron related, sulfate reducing, slime forming), total petroleum hydrocarbons (TPH) and BTEX compounds (benzene, toluene, ethylbenzene and xylenes). Field observations such as odor, water color, sediment, bubbles, and effervescence shall also be documented. The location of the sampled Water Sources shall be surveyed in accordance with Rule 215.

Within 6 months of approval of the Form 2A and Form 15 for Pit 1 (no later than March 31, 2015), operator must submit a completed Form 28 Permit for the DeBeque Station Centralized E&P Waste Management Facility that includes the required information for all three proposed pits as well as all ancillary facilities and equipment at this location in accordance with Rule 908. CENTRALIZED E&P WASTE MANAGEMENT FACILITIES. Failure to do so will result in enforcement action (which may include a Cease and Desist Order from the COGCC and an issuance of a Notice of Alleged Violation [NOAV] with fines of up to \$15,000.00 per day).

The Conditions of Approval (COAs) that will be attached to the Form 28 Permit (that will be submitted within 6 months of approval the Form 2A and Form 15 for Pit No. 1) for the entire Centralized E&P facility will also apply to these Form 2A and Form 15 permits for this Pit No. 1 location. The COAs for the Form 28 may supersede and/or update these existing COAs.

After approval of the Form 2A and Form 15 permits, and prior to start of pit site construction (blade to the ground), adequate financial assurance per Rules 704 and 908.11.g.(1)B. for Pit 1 are required. At a minimum, the cost estimate amount shall be equivalent for the cost of construction of this phase. When the operator submits the Form 28 for this facility, a revised Pit Closure, Remediation, and Reclamation Cost Estimate for the entire location will be required and additional financial assurance will be needed prior to construction of the additional pits and facilities.

## Best Management Practices

No	BMP/COA Type	Description
1	Wildlife	Night lighting shall be of the full-cutoff type and/or timed or otherwise minimized to reduce disruption to wildlife.
2	Wildlife	The proposed location lies within year-round black bear habitat. There is potential for human/bear conflicts with gas exploration employees who are working and/or camping in these areas during development operations. The potential for human/bear conflicts within these project areas will be greatly reduced by placing and utilizing "bear proof" trash containers at worksite/camping locations during construction activities. Furthermore, workers affiliated with these projects shall be advised not to feed bears, whether intentional or not, since this activity is a violation of Colorado Parks and Wildlife Commission Regulations and is detrimental to wild bears. CPW has information on the design and purchase of "bear proof" trash containers, and will provide this information to anyone who is interested in preventing conflicts with bears during construction activities.
3	Wildlife	To reduce the likelihood of truck - wildlife collisions, proper speed limits (<25 mph) shall be posted and enforced on all service roads.
4	Wildlife	Fencing around the pit shall consist of a minimum of a 7-foot chain-link fence capable of preventing elk, deer and other wildlife from entering the pit; concurrently it shall have a small mesh type of fencing along the bottom of the fence (buried one-foot below grade level and extending a minimum of two-feet above grade) capable of preventing small animals from entering between the gaps (gaps should be no larger than three-inches).
5	Wildlife	The pits shall be constructed with a 4:1 slope escape ramp and/or with chain-link fencing in one corner of the pit to allow entrapped wildlife to escape.
6	Wildlife	The pits shall be adequately protected to ensure that waterfowl and other birds are prevented - excluded - from entering or coming in contact with water in the pits. Black Hills would like to use an innovative product called Hexprotect Cover. This HDPE cover has an AQUA version that self-ballasts and is wind- resistant up to 130 mph. Documentation for this product is included in Attachment C.
7	Wildlife	CPW shall be notified immediately if any birds and/or wildlife are found dead or trapped within or around the pits, netting, or fences.
8	Storm Water/Erosion Control	Following the completion of construction activities, newly exposed soils shall be revegetated as soon as possible to prevent erosion and to reduce the likelihood of non-native plants becoming established in the area. Seed mix used for revegetation shall be certified as weed-free and consist of native seeds from plants that are common to the area.

Total: 8 comment(s)

## Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
2107103	PERMITTING CHRONOLOGY
2107104	OPERATIONS PLAN
2107106	CORRESPONDENCE
400556701	FORM 2A SUBMITTED
400565355	NRCS MAP UNIT DESC
400565359	PROPOSED BMPs
400565366	OTHER
400565369	FACILITY LAYOUT DRAWING
400565375	LOCATION PICTURES
400565377	HYDROLOGY MAP
400565380	ACCESS ROAD MAP
400565382	REFERENCE AREA MAP
400565384	REFERENCE AREA PICTURES
400565398	PROPOSED BMPs
400565400	OTHER
400565407	SENSITIVE AREA MAP
400567188	CONST. LAYOUT DRAWINGS
400576517	SURFACE AGRMT/SURETY

Total Attach: 18 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review complete.	9/18/2014 5:10:48 PM
OGLA	Initiated OGLA Form 2A and Form 15 review on 09-11-14 by Dave Kubeczko; Completed OGLA Form 2A and Form 15 review on 09-18-14 by Dave Kubeczko; requested acknowledgement of fluid containment, spill/release BMPs, double-lined pit, fencing and netting, leak dection, as-builts, flowback to tanks, sediment control access road/pad, tank berming, dust control, secondary containment, hydrotest, loading station, pit closure, temp pipeline, pipeline testing, and GW/SW sampling COAs from operator on 09-18-14; received operator concurrence of COAs on 09-18-14; corrected this location to a "sensitive area" due to proximity to downgradient surface water (366'), presence of numerous other natural drainages nearby, and proximity to an irrigation canal located less than 2000' from the pit site; passed by CPW on 03-21-14 with operator submitted BMPs acceptable; passed OGLA Form 2A and Form 15 reviews on 09-18-14 by Dave Kubeczko; fluid containment, spill/release BMPs, double-lined pit, fencing and netting, leak dection, as-builts, flowback to tanks, sediment control access road/pad, tank berming, dust control, secondary containment, hydrotest, loading station, pit closure, temp pipeline, pipeline testing, and GW/SW sampling COAs.	9/18/2014 1:33:20 PM
DOW	The BMPs and conditions of approval submitted with the Form 2A application adequately address wildlife concerns.  Approved:Jim Komatinsky 3-21-2014	3/21/2014 3:49:24 PM
Permit	Form passes completeness.	3/21/2014 1:30:27 PM
Permit	No plugging bond given, too many NRCS attachments, BMPs need to be separated and inserted in the BMP Tab, Requesting Construction layout drawings be combined into one attachment with 7 pages. The SUA is a signed letter which doesn't identify which "Parcel" to be used. The reference point is the furthest to the SE of the planned facility which may not accurately project the distances to building units.	3/4/2014 9:51:05 AM

Total: 5 comment(s)