

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:

400632523

Date Received:

07/25/2014

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:

**440634**

Expiration Date:

**12/26/2017**

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: 10447

Name: URSA OPERATING COMPANY LLC

Address: 1050 17TH STREET #2400

City: DENVER    State: CO    Zip: 80265

Contact Information

Name: Cari Mascioli

Phone: (970) 284-3244

Fax: (970) 625-9929

email: CMascioli@ursaresources.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20120125     Gas Facility Surety ID: \_\_\_\_\_

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

LOCATION IDENTIFICATION

Name: B & V Pad    Number: \_\_\_\_\_

County: GARFIELD

Quarter: LOT 8    Section: 7    Township: 7S    Range: 95W    Meridian: 6    Ground Elevation: 5082

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: 1909 feet FSL from North or South section line

660 feet FWL from East or West section line

Latitude: 39.450245    Longitude: -108.047080

PDOP Reading: 1.2    Date of Measurement: 05/23/2014

Instrument Operator's Name: P. Hoffmann

## 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>21</u>   | Oil Tanks           | <u>    </u> | Condensate Tanks     | <u>2</u>    | Water Tanks     | <u>8</u>    | Buried Produced Water Vaults              | <u>    </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>    </u> |
| Pump Jacks           | <u>    </u> | Separators          | <u>21</u>   | Injection Pumps      | <u>    </u> | Cavity Pumps    | <u>    </u> |   |             |
| Gas or Diesel Motors | <u>    </u> | Electric Motors     | <u>    </u> | Electric Generators  | <u>    </u> | Fuel Tanks      | <u>    </u> | Gas Compressors                           | <u>    </u> |
| Dehydrator Units     | <u>    </u> | Vapor Recovery Unit | <u>    </u> | VOC Combustor        | <u>1</u>    | Flare           | <u>    </u> | LACT Unit                                 | <u>    </u> |
|                      |             |                     |             |                      |             |                 |             | Pigging Station                           | <u>1</u>    |

## OTHER FACILITIES

Other Facility Type

Number

| <u>Other Facility Type</u> | <u>Number</u> |
|----------------------------|---------------|
|                            |               |

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

21 buried flowlines from well head to separators and to water and condensate tanks will be 2" steel.  
1 buried gas pipeline to connect with gas gathering network will be 6" to 8" steel.

## CONSTRUCTION

Date planned to commence construction: 01/05/2015 Size of disturbed area during construction in acres: 3.70  
Estimated date that interim reclamation will begin: 06/01/2016 Size of location after interim reclamation in acres: 1.50  
Estimated post-construction ground elevation: 5084

## DRILLING PROGRAM

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

Is H<sub>2</sub>S 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

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Method: Recycle/reuse

Cutting Disposal: OFFSITE Cuttings Disposal Method: Beneficial reuse

Other Disposal Description:

Please see attachment J(1) - Waste Management Plan

Beneficial reuse or land application plan submitted? No

Reuse Facility ID:                      or Document Number:                     

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

## SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: B&V Developers LLLP

Phone:

Address: 0259 County Road 320

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

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

Email: \_\_\_\_\_

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: 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 05/21/2014

### 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): Unimproved Pasture

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): Unimproved Pasture

Subdivided:  Industrial  Commercial  Residential

## CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 627 Feet  
Building Unit: 627 Feet  
High Occupancy Building Unit: 1994 Feet  
Designated Outside Activity Area: 5280 Feet  
Public Road: 524 Feet  
Above Ground Utility: 856 Feet  
Railroad: 1098 Feet  
Property Line: 244 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: 05/23/2014

Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: 05/23/2014

## 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: 3-Aravada loam (1-6% slopes)

NRCS Map Unit Name: 72-Wann sandy loam (3-6% 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: 05/21/2014

List individual species: Please see Attachment H - NRCS Soil Survey

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: 350 Feet

water well: 964 Feet

Estimated depth to ground water at Oil and Gas Location 20 Feet

Basis for depth to groundwater and sensitive area determination:

Please refer to Attachment P, Q, S and Attachment E.

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 609

## 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

The Form 2 APDs will be submitted at a later date. The center of the proposed pad was used as the reference point for footages unless otherwise noted on attachment A & D (Location Drawing). It is anticipated that this issue will be resolved in the July 2014 rulemaking regarding reference points for Form 2A submittals. The estimated size of location after interim reclamation is based on temporary reclamation and dependent upon Ursa's plans to return to the location at a later date.

Pre-application Notice / Buffer Zone Notice was sent to building unit owners within 1000' of the location on 5/23/14, certification attached. The surface owner has waived all future notification requirements, signed waiver is attached for your reference.

A Section 404 Site Investigation was conducted no jurisdictional waters were found.

Also attached is a letter from the Town of Parachute regarding the rezoning of the Spring Lake Estates Subdivision as shown on Attachment A & D, which will allow the access road and well pad to be constructed in the proposed location. Construction is planned for October 2014.

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

Signed: \_\_\_\_\_ Date: 07/25/2014 Email: CMascioli@ursaresources.com

Print Name: Cari Mascioli Title: Regulatory Tech

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: 12/27/2014

### **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**

|  |  |
|--|--|
|  | <p>The moisture content of any cuttings in a cuttings trench or pile shall be as low as practicable to prevent accumulation of liquids greater than de minimis amounts. At the time of closure, if the drill cuttings are to be left onsite, they must also meet the applicable standards of table 910-1.</p> <p>Flowback and stimulation fluids must be sent to tanks, separators, or other containment/filtering equipment before the fluids can be placed into any pipeline or storage vessel located on the well pad; or into tanker trucks for offsite disposal. 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.</p>  |
|  | <p>Operator must ensure secondary containment for any volume of fluids contained at well site during drilling and completion 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. Any berm constructed at the well pad location will be stabilized, inspected at regular intervals (at least every 14 days), and maintained in good condition.</p> <p>The access road will be constructed and maintained as to not allow any sediment to migrate from the access road to nearby surface water or any drainages leading to surface water.</p> <p>Strategically apply fugitive dust control measures, including encouraging established speed limits on private roads, to reduce fugitive dust and coating of vegetation and deposition in water sources.</p> <p>Berms or other containment devices shall be constructed to be sufficiently impervious (corrugated steel with poly liner) to contain any spilled or released material around permanent crude oil, condensate, and produced water storage tanks.</p> |
|  | <p>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 of the pipeline network.</p> <p>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.</p>   |
|  | <p>Notify the COGCC 48 hours prior to start of pad construction, rig mobilization, spud, start of hydraulic stimulation operations, start of flowback operations, and pipeline testing using Form 42 (the appropriate COGCC individuals will automatically be email notified, including the LGD for hydraulic stimulation operations).</p>   |

### **Best Management Practices**

| No | BMP/COA Type                        | Description   |
|----|-------------------------------------|---|
| 1  | Planning                            | <p><b>GENERAL – PLANNING</b></p> <ul style="list-style-type: none"> <li>• This is a new oil and gas location and will include construction of a well pad and proposed wells.</li> <li>• Prior to initiation of the COGCC Form 2A permitting process, Ursa held internal meetings and onsites to determine the feasibility of the location, and identified all compliance requirements, guidance and policies needed to permit the location and proposed oil and gas operations. All COGCC permitting requirements under the 200 through 1200 series rules were incorporated, as appropriate into this Form 2A and related attachments.</li> <li>• The best management practices (BMPs) incorporated herein also considered other Federal, state and county agency requirements and guidance, including those under the jurisdiction of the Environmental Protection Agency (EPA), U.S. Fish and Wildlife Service (USFWS), U.S. Army Corps of Engineers (ACOE), Federal Emergency Management Agency (FEMA), Colorado Department of Public Health and Environmental (CDPHE), Colorado Parks and Wildlife (CPW), and Garfield County (GARCO), among others.</li> <li>• Planning and permitting information relevant to the location based on Federal, state and county regulations, guidance and policies is documented as appropriate in Ursa’s “Site Assessment Checklist/Map”. A copy of this internal BMP (while not required) was provided to the COGCC at the Setback Training on August 30, 2013 held in Grand Junction.</li> <li>• Upon approval of the Form 2A, Ursa holds Pre-Construction, Pre-Spud, Pre-Completions and Pre-Production meetings with contractors performing work at the location, as applicable to the proposed activity. As a BMP, Ursa has developed checklists for these meetings to review regulations, COAs, NTOs and related requirements.</li> <li>• Traffic and Public Safety – Ursa developed a site-specific Emergency Response Plan (SSERP) and Haul Route Map which are communicated to local emergency response agencies, affect communities and stakeholders, as well as contractors performing work at the location.</li> </ul> |
| 2  | Community Outreach and Notification | <p><b>COMMUNITY / STAKEHOLDER OUTREACH AND NOTIFICATIONS</b></p> <ul style="list-style-type: none"> <li>• An SUA has been signed with the landowner allowing this location to be constructed, drilled and operated in accordance with the Form 2A submitted.</li> <li>• The landowner has waived all COGCC notifications to include Pre-application notifications, statutory notifications, drilling and completions notifications related to Federal surface, as they are intimately involved with all phases of permitting the location and associated wells.</li> <li>• Ursa routinely communicates proposed plans and operations schedules to stakeholders through Community Counts, the GARCO Energy Advisory Board, Battlement Mesa Concerned Citizens, NW Colorado Oil &amp; Gas Forum and others. In addition, periodic stakeholder meetings are held with landowners and affected parties.</li> <li>• Communication with Kirby Wynn and municipal LGDs are also held routinely in addition to communication required by COGCC regulations, as appropriate.</li> </ul>  |

|   |                      |   |
|---|----------------------|---|
| 3 | General Housekeeping | <p><b>ENVIRONMENTAL STEWARDSHIP AND COMPLIANCE / HOUSEKEEPING</b></p> <ul style="list-style-type: none"> <li>• <b>AGENCY INSPECTIONS AND CORRECTIVE ACTIONS</b> – Ursa will implement corrective actions necessary in response to all Federal and state agency inspections in a timely manner. Inspections resulting in the potential for immediate or significant environmental impacts will be addressed immediately, subject to safety and weather considerations.</li> <li>• <b>URSA VOLUNTARY INSPECTIONS</b> – Ursa conducts voluntary inspections and corrective actions of all locations at least monthly using a self-implemented checklist of key actions (including environmental) that require compliance with COGCC, Federal, and other state and county requirements.</li> <li>• <b>AESTHETICS AND NOISE</b> – Lighting, noise, odors, dust and related nuisances are managed in accordance with COGCC 600 and 802, 803, 804 and 805 Series Rules, and in accordance with Ursa policies, procedures and checklists.</li> <li>• <b>AIR PERMITTING AND COMPLIANCE</b> – Ursa will comply with CDPHE regulations regarding air permitting, compliance monitoring, inspections and reporting. All air sources will be assigned AIRS ID numbers by the CDPHE and tracked for compliance and reporting purposes. In addition, Ursa is required to track, monitor and report Greenhouse Gas (GHG) emissions to EPA annually.</li> <li>• <b>CHEMICAL &amp; MATERIAL HANDLING</b> – All materials and chemicals will be managed to minimize environmental contamination in accordance with MSDS sheets and EPA, COGCC and CDPHE regulations. Materials and chemicals that are not a waste may be reused or recycled.</li> <li>• <b>SETBACK MITIGATION REQUIREMENTS</b> – Ursa has incorporated the mitigation requirements identified in COGCC Rule 604, as applicable on a site-specific basis into its Operations Checklists, Voluntary and Mandatory Site Inspections, and Environmental Programs plans, status monitoring, and policies and procedures.</li> <li>• <b>NOXIOUS WEEDS</b> – Weeds will be managed in accordance COGCC Rule 1003.f. and 1004.e. as incorporated into Ursa's Noxious Weed plan; to include up to three treatments per year depending upon the species being managed and mapping as needed, throughout the life cycle of the location (construction – final reclamation).</li> <li>• <b>SAFETY</b> – Safety requirements and buffers as required by the COGCC 602, 603, and 606A and 606B Series Rules, among others, and the Office of Safety and Health Administration (OSHA) will be observed at all time. Daily safety briefings and Job Safety Assessments (JSA's) are routinely conducted in all phases of operations. In addition, Ursa employees a full-time safety manager to oversee all field contractors.</li> <li>• <b>SPILLS / INCIDENTS</b> – Spill prevention and response are addressed in Ursa's Spill Prevention and Management Plan. This includes training of employees and contractors personnel on at least an annual basis. Spill response includes notifications, reporting, response actions, remediation and corrective actions. The spill criteria in Ursa's plan requires that waste be properly classified as E&amp;P or non-E&amp;P wastes. For E&amp;P waste, all spills greater than 1 barrel the COGCC will be reported to the COGCC using a Form 19. Should remediation be required, a Form 27 will be submitted as well. Spills related to non-E&amp;P waste will be managed in accordance with CDPHE and EPA regulations depending on the volume spilled. As a BMP, Ursa tracks and cleans up all spills, including those that are not reportable.</li> <li>• <b>SPCC / CONTAINMENT</b> – All production tanks and tanks used for completions activities will be installed, labeled, contained, operated, and decommissioned in accordance with Ursa's SPCC/Containment Plan, which is required by EPA regulations (40 CFR 112). The plan, in combination with Ursa's Spill Prevention and Management plan, addresses COGCC 600 and 900 Series Rules, among others, regarding the management of tanks.</li> <li>• <b>WASTE</b> - The location will be managed in accordance with COGCC 907 and 907A Rules, which are incorporated into Ursa's Waste Management Plan, which addresses both E&amp;P and non-E&amp;P waste, including those under the jurisdiction of the CDPHE and EPA. The plan, in combination with Ursa's Spill Prevention and Management Plan, minimizes the potential for any exploration and production wastes, chemicals, fluids, etc. from leaving the location, using BMPs including berms, barriers, and use of spill control materials.</li> <li>• <b>WILDLIFE</b> - A Wildlife Mitigation Plan (March 24, 2010) is in place that was agreed to by Ursa (previously Antero). The plan allows for 90+ well pads. Currently, Ursa has 62 well pads. Ursa is current on all obligations under the plan and communicates with Colorado Parks and Wildlife routinely.</li> </ul> |
|---|----------------------|---|

|   |                                |  |
|---|--------------------------------|--|
| 4 | Construction                   | <p><b>CONSTRUCTION AND SITE STABILIZATION</b></p> <ul style="list-style-type: none"> <li>• The BMPs below entitled “Environmental Stewardship and Compliance” provide additional information that is applicable to one or more phases of operations.</li> <li>• <b>CONSTRUCTION (General)</b> – The location will be constructed and maintained in accordance with COGCC 1002 Rules regarding soil and stormwater management, and surface disturbance minimization as incorporated into Ursa’s plans, policies and procedures.</li> <li>• <b>DUST CONTROL</b> - The pad and access road will be graveled to reduce fugitive dust and maintained as required by COGCC rules. In addition, water and other dust suppressants are used as required, dependent upon the level of activity, moisture conditions, etc. throughout all phases of operations</li> <li>• <b>RECLAMATION (Interim)</b> - The site/soils will be stabilized as soon as practical during and immediately following construction. Once wells at the location are drilled, Ursa will complete interim reclamation in accordance with the COGCC 1003 rules using seed mixes and materials compatible with soil types, moisture, and local climate conditions as specified by the appropriate agency and/or in landowner surface use agreements, or locally acceptable industry practices.</li> <li>• <b>STORMWATER</b> - The location will be constructed / maintained in accordance with the CDPHE and COGCC 1002.f. (1) and (2) stormwater regulations as implemented by Ursa’s Stormwater Management Plan, so as to control sediment run-off. Stormwater BMPs will also serve as secondary or tertiary containment in the event of a spill. Site specific plans (i.e. diagrams) will be developed and inspected against at the frequency required by CDPHE regulations, to include 14 day, 30 day, and major storm event inspections until 70% reclamation is achieved. Corrective actions and maintenance will be tracked and implemented. The post-construction stormwater program will be managed in accordance with COGCC Rule 1002.f. (3). Inspections and corrective actions will be conducted through 80% interim reclamation and annually thereafter. These inspections are also tracked and corrective actions implemented. Native soils will be used whenever available to construct stormwater BMPs, supplemented by non-native materials based on site-specific conditions.</li> <li>• <b>WATER WELL SAMPLING (COGCC Rule 609)</b> – Water well sampling will be conducted prior to setting conductors; followed by post-sampling requirements and reporting the landowner and COGCC. No water wells exist within ½ mile of the locations under this Form 2A.</li> <li>• For safety purposes, the location and site layout has been designed to accommodate all operations within the limits of disturbance while meeting Federal and state safety regulations, including required buffers and distances between operating components and combustion sources.</li> <li>• <b>FLOODPLAIN IMPACTS</b> – Ursa completed a floodplain assessment and found that this location did not meet criteria to be designated within the 100 year floodplain.</li> </ul> |
| 5 | Drilling/Completion Operations | <p><b>DRILLING</b></p> <ul style="list-style-type: none"> <li>• Drilling multiple wells from this location using directional / horizontal drilling will be implemented to avoid the need for additional well pads; reducing potential environmental impacts to include habitat loss and fragmentation, noise, traffic concerns, and related impacts to air, land and water.</li> <li>• <b>MIRU</b> – Unless waived, Notice to all Building Unit owners will be sent at least 30 days, but no more than 90 days within the Buffer Zone prior to the Move-In, Rig-Up of the drilling rig when more than 1 year has elapsed since previous notice or since drilling activity last occurred, or if no notice had previously been required in accordance with the four examples provided in the COGCC MIRU policy.</li> <li>• No cuttings pits are proposed.</li> </ul>   |

|   |                                |   |
|---|--------------------------------|---|
| 6 | Drilling/Completion Operations | <p><b>COMPLETIONS</b></p> <ul style="list-style-type: none"> <li>• The BMPs below entitled “Environmental Stewardship and Compliance” provide additional information that is applicable to one or more phases of operations.</li> <li>• AIR &amp; ODORS - Well completions will utilize flowback completion technologies and/or flares to reduce odors from plug drillout, and venting of salable and non-salable gas</li> <li>• CHEMICAL USE – All chemicals used will be tracked and reported in accordance with COGCC rules and submitted through FracFocus within 120 days of initiating well stimulation.</li> <li>• WASTE MANAGEMENT OF WATER – Flowback water used for well completions will be recycled and treated to the maximum extent practical at the location. Water that can't be recycled will be injected through the use of wells approved by COGCC and Garfield County, or transported via truck or pipeline to the COGCC and Garfield County approved Wasatch E&amp;P Facility.</li> <li>• WASTE - No stimulation or flowback pits will be constructed.</li> </ul>  |
| 7 | Drilling/Completion Operations | <p><b>PRODUCTION</b></p> <ul style="list-style-type: none"> <li>• The BMPs below entitled “Environmental Stewardship and Compliance” provided more detailed information regarding environmental protection applicable general operations.</li> <li>• All production equipment to include separators, produced water and condensate tanks, pipelines and flow lines will be constructed and managed in accordance with COGCC 605 and 1100 Series Rules.</li> <li>• AIR &amp; ODORS - Combustor controls will be used to mitigate odors from production tanks. Ursa will perform inspections on at least a monthly basis to ensure potential emissions sources are properly managed. In addition, Ursa's pumper crew inspects each location on a daily basis.</li> <li>• REMOTE MONITORING - Remote monitoring will be used to reduce truck traffic, fugitive dust to the extent practical.</li> <li>• VISUAL IMPACTS - Above-ground facilities (e.g. production tanks) will be managed to minimize visual effects (e.g. painted to blend with environment)</li> <li>• WILDLIFE – All separators/dehydrators and heater –treater equipment are outfitted with bird cones.</li> <li>• WATER RECYCLING – Produced water used for well completions will be recycled and treated to the maximum extent practical. Water that can't be recycled will be injected through the use of wells approved by COGCC and Garfield County, or transported via truck or pipeline to the COGCC and Garfield County approved Wasatch E&amp;P Facility.</li> </ul> |

Total: 7 comment(s)

## Attachment Check List

| <u>Att Doc Num</u> | <u>Name</u>  |
|--------------------|--|
| 2107193            | CORRESPONDENCE   |
| 2107194            | LOCATION DRAWING   |
| 2107195            | Rule 305.a.(2) Pre-Application Notification Certification Letter |
| 2107196            | Rule 305.a.(1) Notification to LGD Certification Letter          |
| 2107197            | Rule 306.e. Certification Letter                                 |
| 2167906            | OTHER  |
| 400632523          | FORM 2A SUBMITTED  |
| 400638679          | PROPOSED BMPs  |
| 400638685          | HYDROLOGY MAP  |
| 400638688          | ACCESS ROAD MAP  |
| 400638689          | NRCS MAP UNIT DESC   |
| 400638691          | CONST. LAYOUT DRAWINGS   |
| 400638692          | FACILITY LAYOUT DRAWING  |
| 400638693          | MULTI-WELL PLAN  |
| 400638703          | WASTE MANAGEMENT PLAN  |
| 400638706          | EQUIPMENT LIST   |
| 400640480          | RULE 306.E. CERTIFICATION  |
| 400641807          | LOCATION PICTURES  |
| 400645926          | RULE 306.E. CERTIFICATION  |
| 400645927          | RULE 306.E. WAIVER   |
| 400649790          | OTHER  |
| 400649930          | HYDROLOGY MAP  |
| 400651776          | LOCATION DRAWING   |

Total Attach: 23 Files

### General Comments

| <u>User Group</u> | <u>Comment</u>  | <u>Comment Date</u>      |
|-------------------|---|--------------------------|
| Permit            | Corected proposed construction date.<br>Final review complete.  | 12/24/2014<br>7:18:10 AM |
| Permit            | Attached Town of Parachute Zoning approval as (Other). Urban Mitigation and Buffer Zone Mitigation notices apply.<br>Ready to pass.   | 11/11/2014<br>9:09:58 AM |
| Permit            | Opr reports that the Town of Parachute approved the re-zoning application on 10/9.  | 10/27/2014<br>9:44:52 AM |
| Permit            | Town permit attachment does not allow this location. See K. Wynn comment and Town of Parachute letter (OTHER), which states application for special review is on the Town Trustee agenda for October.   | 9/25/2014<br>1:42:45 PM  |
| OGLA              | Initiated Form 2A review on 08-19-14 by Dave Kubeczko; Completed OGLA Form 2A review on 09-03-14 by Dave Kubeczko, requested revised attachments, clarifications, additional attachments, and acknowledgement of notification, fluid containment, sediment control access road, dust control, spill/release BMPs, flowback to tanks, cuttings low moisture content, pipeline testing, and tank berming COAs from operator on 09-03-14; received requested information and acknowledgement of COAs from operator on 10-15-14; corrected to 'sensitive area' due to close SW (350'), close to Colorado River (1310'), and shallow GW (20' bgs); corrected distance to Building and Building Units from 638' (residence) to 627' (hotel); corrected distance to high occupancy Building Unit from 627' (hotel) to 1994' (Day Care and Pre-school); passed by CPW on 07-29-14 with WMP acceptable; passed OGLA Form 2A review on 12-09-14 by Dave Kubeczko; notification, fluid containment, sediment control access road, dust control, spill/release BMPs, flowback to tanks, cuttings low moisture content, pipeline testing, and tank berming COAs. | 9/3/2014 5:43:54<br>PM   |
| LGD               | KHW, Pass pending approval and acceptance by Town of Parachute. Apparently land use zoning will need to be changed to allow this facility at the proposed location.   | 8/14/2014<br>3:17:57 PM  |
| LGD               | KHW, Pass pending approval and acceptance by Town of Parachute. Apparently land use zoning will need to be changed to allow this facility at the proposed location.   | 8/14/2014<br>3:17:51 PM  |
| DOW               | This location is within the approved Ursa (previously Antero) Wildlife Mitigation Plan (WMP) that was developed between the operator and Colorado Parks and Wildlife. The terms and conditions of the WMP are sufficient to address wildlife concerns associated with this location.<br><br>By: Taylor Elm, 7/29/2014, 9:51   | 7/29/2014<br>9:52:29 AM  |
| Permit            | Passed completeness. Footage now FWL in both Location Identification and Location Drawing. Operator/Submitter has acknowledged that a new 1A will be filled out to modify her last name.  | 7/28/2014<br>3:35:49 PM  |
| Permit            | Return to draft:<br>1. Footage at surface shows 660 FEL on form and reference point in Location drawing, when closer to the west line.<br>2. Operator seems to have new last name. Asked operator to fill out 1A to modify form   | 7/25/2014<br>4:03:07 PM  |

Total: 10 comment(s)