



January 19, 2016

Matt Lepore  
Colorado Oil and Gas Conservation Commission  
1120 Lincoln St., Ste 801  
Denver, CO 80203

**RE:** Garfield County Request for CDPHE consultation on Ursa Resources BMC-B (Doc #400927767) and BMC-D (Doc #400928415) Form 2 and Form 2A permit applications

Dear Mr. Lepore,

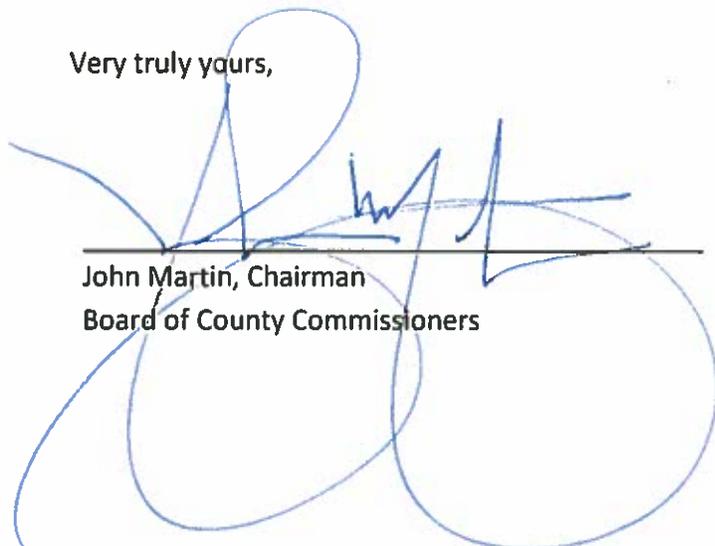
With this letter Garfield County submits our request, per COGCC Rule 306.d.1.A.i, that you request CDPHE consultation with the Commission during your consideration of Ursa Resources Form 2A and Form 2 for the BMC-B and BMC D oil and gas locations.

The proposed BMC B and BMC D locations are within a Planned Unit Development in unincorporated Garfield County which requires Special Use Permits. The Board of County Commissioners' approved the special use permit applications, with conditions, on December 17, 2015. Please see the attached Conditions of Approval within Resolutions 2016-02 and 2016-03. The County anticipates issuing special use permits for both locations once the conditions of approval are met.

Please find attached a copy of a letter received from CDPHE on September 8, 2015 (during the county Special Use Permit review process for BMC B and BMC D pad locations) wherein CDPHE indicated an inability to provide referral agency comments to Garfield County. CDPHE additionally noted they may consider consultation with COGCC, if requested, to provide recommendations to COGCC related to public health, safety, welfare or the environment.

We appreciate your consideration of this request.

Very truly yours,



John Martin, Chairman  
Board of County Commissioners

Cc Kevin Batchelder County Manager  
Tari Williams, County Attorney  
Fred A. Jarman, AICP, Director, Community Development Department  
Kirby Wynn, Oil & Gas Liaison

**Attachments**

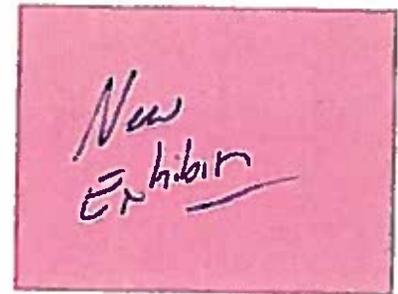
1. CDPHE letter to Garfield County dated September 8, 2015
2. Garfield County Resolutions 2016-02 and 2016-03



Dedicated to protecting and improving the health and environment of the people of Colorado

September 8, 2015

Fred A. Jarman, AICP  
Director, Garfield County Community Development Department  
108 8<sup>th</sup> Street, Suite 401  
Glenwood Springs, CO 81601



Re: MIPA-8341, 8342 and PDPA-08-15-8373 Referrals

Dear Mr. Jarman,

At this time, the Colorado Department of Public Health and Environment (Department) is unable to provide comments for the Battlement Mesa BMC B and D well pads and Phase 1 pipeline project. The Department does not have adequate staffing to assess potential water quality or environmental impacts for the numerous local planning agency project referrals received annually. However, if consultation with the Colorado Oil and Gas Conservation Commission is requested the Department may consult on the BMC B, BMC D well pads or Phase 1 pipeline project and provide recommendations related to protection of public health, safety, welfare or the environment to the Commission.

Sincerely,

Kent Kuster  
Environmental Specialist  
Colorado Department of Public Health and Environment





Reception#: 872158  
01/05/2016 04:19:45 PM Jean Alberico  
1 of 9 Rec Fee: \$0.00 Doc Fee: 0.00 GARFIELD COUNTY CO

STATE OF COLORADO )  
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County of Garfield )

At a special meeting of the Board of County Commissioners for Garfield County, Colorado, held at the Grand Valley Recreation Center (Battlement Mesa) at 398 Arroyo Drive, Parachute, Colorado on Tuesday, the 15<sup>th</sup> day of December A.D. 2015, there were present:

- John Martin, Commissioner Chairman
- Mike Samson, Commissioner
- Tom Jankovsky, Commissioner
- Tari Williams, County Attorney
- Kelly Cave, Assistant County Attorney
- Jean Alberico, Clerk of the Board
- Kevin Batchelder, County Manager

when the following proceedings, among others were had and done, to-wit:

RESOLUTION NO. 2016-02

**A RESOLUTION OF APPROVAL FOR A SPECIAL USE PERMIT FOR EXTRACTION AND PROCESSING OF NATURAL RESOURCES GRANTED TO BATTLEMENT MESA PARTERNS (SURFACE OWNER) AND URSA OPERATING COMPANY (OPERATOR) TO DEVELOP 24 NATURAL GAS WELLS ON A WELL PAD (KNOWN AS THE "B PAD") LOCATED SOUTH EAST OF THE TOWN OF PARACHUTE IN THE BATTLEMENT MESA PLANNED UNIT DEVELOPMENT IN THE SOUTH EAST QUARTER OF SECTION 13, TOWNSHIP 7 SOUTH, RANGE 96 WEST OF THE 6<sup>TH</sup> PRINCIPAL MERIDIAN, GARFIELD COUNTY**

*PARCEL NO# 2409-134-06-004*

Recitals

A. The Board of County Commissioners of Garfield County, Colorado, "Board" received a request from Battlement Mesa Partners (surface owner) and Ursa Operating Company (operator) collectively referred to herein as "Applicant" for a Special Use Permit for Extraction and Processing of Natural Resources in the Battlement Mesa Planned Unit Development (PUD) to develop 24 natural gas wells on a well pad known as and referred to as the "B Pad" hereinafter, as further described in Exhibit A, Site Plan.

B. The B Pad is located on a 15.1 acre parcel of land owned by Battlement Mesa Partners legally described as River Bluff Filing #1, Lot 4 Service Center within the Battlement Mesa Planned Unit Development in Section 18, Township 7, Range 95. The B Pad itself will be approximately 250 feet

by 350 feet in size.

C. The subject property and B Pad is located within unincorporated Garfield County in the Public / Semi-Public / Recreation sub-zone of the Battlement Mesa Planned Unit Development located east of the Town of Parachute, Colorado accessed by County Road 307 (known as River Bluff Road).

D. Extraction and Processing of Natural Resources may be permitted in the Public / Semi-Public / Recreation sub-zone of the Battlement Mesa Planned Unit Development with a Special Use Permit.

E. The Board is authorized to approve, deny or approve with conditions a Special Use Permit pursuant to the Garfield County Zoning Resolution of January 2, 1979 (and zoning amendment adopted on October 15, 1979 in Resolution 79-132) processed as a Major Impact Review pursuant to the Garfield County Land Use and Development Code of 2013, as amended.

F. The Planning Commission opened a public hearing on the aforementioned application on September 23, 2015 and continued the public hearing to October 28, 2015. The Planning Commission then closed the public hearing on October 28, 2015, and moved to recommend approval with conditions to the Board of County Commissioners by a vote of 6 to 1.

G. The Board of County Commissioners opened a public hearing on the 15<sup>th</sup> day of December, 2015 for consideration of whether the proposed Special Use Permit should be granted or denied, during which hearing the public and interested persons were given the opportunity to express their opinions regarding the request. This public hearing was continued to both December 16<sup>th</sup> and December 17<sup>th</sup>, 2015.

H. The Board of County Commissioners closed the public hearing on the 17<sup>th</sup> day of December, 2015 to make a final decision.

I. The Board of County Commissioners, on the basis of substantial competent evidence produced at the aforementioned hearing, has made the following determinations of fact:

1. That proper public notice was provided as required for the hearing before the Board of County Commissioners.
2. The hearing before the Board of County Commissioners was extensive and complete, that all pertinent facts, matters and issues were submitted and that all interested parties were heard at that hearing.
3. That for the above stated and other reasons the proposed Special Use Permit for *Extraction and Processing of Natural Resources* for Battlement Mesa Partners (Surface Owner) and URSA (Minerals Lessee & Operator) is in the best interest of the

health, safety, convenience, order, prosperity and welfare of the citizens of Garfield County.

4. That a waiver from Section 7-107 Access & Roadways (reduction of cross-slope from 3% to 2% for a gravel road) is granted.
5. That with the adoption of Conditions of Approval, the application is in general conformance with the 2030 Comprehensive Plan, as amended.
6. That with the adoption of the Conditions of Approval the application can adequately met the requirements of the Garfield County Zoning Resolution of January 2, 1979 (and zoning amendment adopted on October 15, 1979 in Resolution 79-132) and the Garfield County Land Use and Development Code of 2013, as amended.

### RESOLUTION

**NOW THEREFORE, BE IT RESOLVED** by the Board of County Commissioners of Garfield County, Colorado, that:

- A. The forgoing Recitals are incorporated by this reference as part of the resolution.
- B. The Special Use Permit for Extraction and Processing of Natural Resources in the Battlement Mesa Planned Unit Development (PUD) to develop 24 natural gas wells on a well pad known as and referred to as the B Pad is hereby approved subject to compliance with the following conditions:
  1. That all representations of the Applicant, either in testimony or the submitted application materials, shall be considered conditions of approval unless specifically altered by the Board of County Commissioners.
  2. If future extraction and processing activity (additional to what is being permitted herein) would be proposed, an amended Special Use Permit shall be required prior to that activity occurring on the site.
  3. The Operator (Ursa) acknowledges that the County has performance standards in place that could lead to revocation of the Special Use Permit if violations of the permit occur.
  4. Operation of the facility must be in accordance with all Federal, State and local regulations and permits governing the operation of this facility.
  5. The County commits to notifying the operator of any compliance concern. This may include direct notice by Garfield County to other permitting agencies if necessary



depending on the compliance concern.

6. The County can request a site inspection with reasonable notice to the Operator. Full access to any part of the site will be granted. On request, all paperwork must be shown. The County cannot request a large number of inspections that would interfere with normal operation without cause.
7. All extraction and processing activities shall be required to comply with the following performance standards:
  - a. Volume of the sound generated: Every use shall be so operated that the volume of sound inherently and recurrently generated does not exceed 70 dB(A) from 7:00 AM to 7:00 PM and 65 dB(A) from 7:00 PM to 7:00 AM, measured 350 feet from the edge of the pad. As set forth in COGCC Regulation 802(b), the noise levels shall be subject to an increase by 10 dB(A) for a period not to exceed 15 minutes in any one (1) hour period and cannot exceed 65 dB(A) for shrill or periodic impulsive noise. Complaint protocols shall be governed by COGCC Rule 802(c).
  - b. Vibration generated: every use shall be so operated that the ground vibration inherently and recurrently generated is not perceptible, without instruments, at any point of any boundary line of the property on which the use is located;
  - c. Emissions of smoke and particulate matter: 1) every use shall be so operated so as to comply with all Federal, State and County air quality laws, regulations and standards, and 2) applicant Operator will have water trucks onsite for dust abatement during construction;
  - d. Emission of heat, glare, radiation and fumes: every use shall be so operated that it does not emit heat, glare, radiation or fumes which substantially interfere with the existing use of the adjoining property or which constitutes a public nuisance or hazard. Flaring of gases, aircraft warning signals, reflective painting of storage tanks, or other such operations which may be required by law as safety or air pollution control measures shall be exempted from this provision;
  - e. Storage area, salvage yard, sanitary land-fill, and mineral waste disposal areas:
    - i. Storage of flammable, or explosive solids, or gases, shall be in accordance with accepted standards and laws and shall comply with the National Fire Code;
    - ii. At the discretion of the County Commissioners all outdoor storage facilities for fuel, raw materials and products shall be enclosed by a fence or wall adequate to conceal such facilities from adjacent property;



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- iii. No materials or wastes shall be deposited upon a property in such form or manner that they may be transferred off the property by any reasonable foreseeable natural causes or forces;
  - iv. All materials or wastes which might constitute a fire hazard or which may be edible by or otherwise be attractive to rodents or insects shall be stored outdoors in accordance with applicable State Board of Health Regulation;
- f. Water pollution: in a case in which potential hazards exist, it shall be necessary to install safeguards designed to comply with the Regulations of the Environmental Protection Agency before operation of the facilities may begin.
8. All lighting, except as demonstrated for safety reasons, shall be directed inward and downward and be shaded in order to prevent direct reflection on adjacent property and residences in the area. LED lights will be used when possible and practical. Workers will be advised when moving light plants to ensure that the light is focused directly on the work being done. Most lighting will be below the sound wall. Drilling mast lighting that is above the sound wall will be downcast and/or shielded to reduce fugitive light outside sound wall and well pad. Safety considerations will take precedence.
9. The construction of the B Pad shall be limited to the hours of 7:00AM to 7:00PM, with the exception of emergencies and episodic events beyond Ursa's control. Drilling may occur continuously 24 hours a day. Well completion activity shall be limited to occurring between 7:00AM and 7:00PM. Once the wells are in production, vehicle trips to the pad shall be limited to the hours of 7:00AM to 7:00PM, with the exception of emergencies and episodic events beyond Ursa's control.
10. Operator will comply with COGCC Series 1100 rules and associated guidance which requires at least one annual pressure test be performed. Operator shall utilize only welded and flanged connections for all buried flowlines. The Applicant shall bed and partially backfill flowlines on the pad with non-native backfill to eliminate the corrosive soil concern. Operator will line all flowline trenches with a bentonite liner at least 6 inches in depth.
11. Operator shall comply with the CDPHE regulations and air quality permit conditions for emission controls considering technically and economically feasible BMPs. All facilities onsite shall be subjected to an instrument-based leak detection and repair (LDAR) inspection at least monthly during drilling and completion and quarterly during production. If a leak over 10,000 ppm hydrocarbons is discovered, the first attempt to repair the leak shall be made as soon as reasonably possible and in accordance with state law.
12. The Operator shall comply with COGCC green completion practices and EPA's natural gas STAR program to reduce VOC emissions to the lowest level technically possible for the

wells on the B Pad. Additionally, the Applicant commits to using carbon blankets over thief hatches on temporary tanks to reduce odors.

13. Once construction begins, the Operator shall treat all List A, B C noxious weeds within pad site perimeter and along access road according to Ursa's noxious weed management plan. This shall include three treatments annually by a licensed and certified herbicide applicator.
14. The Operator shall commit to ensuring truckloads of dirt, sand, aggregate materials, drilling cuttings, and similar materials are covered to reduce dust and PM emissions during transport.
15. The Operator shall install at least one up-gradient and two down-gradient groundwater piezometer monitoring wells at the B Pad location. The Operator shall conduct baseline sampling for, at a minimum, the following: all major cations and anions, total dissolved solids, iron, manganese, nitrates, nitrites, selenium, benzene, toluene, ethylbenzene, xylenes, methane, pH, specific conductance, and any chemical identified in the full disclosure of chemicals of potential concern. Results shall be reported to Garfield County.
16. The Operator shall conduct monthly monitoring of the well site groundwater wells for the parameters specified in condition of approval No. 15 during well drilling and completion activities, followed by annual monitoring for the duration of the project. All results of this monitoring shall be provided to the Garfield County Community Development Department and Oil and Gas Liaison within 60 days of sample collection. If (1) benzene, ethyl benzene, toluene, or xylenes are detected at levels greater than the concentration levels specified in Table 910-1 of the COGCC rules; (2) any cations, anions, metals, or total dissolved solids exceed 1.25 times background concentrations; (3) methane or any chemical identified as a concern from the full disclosure of chemicals exceeds 1.25 background concentrations; or (4) if pH or specific conductance exceeds the limits specified in COGCC table 910-1, the Operator shall immediately remediate the concern as a condition of the Special Use Permit.
17. The Operator shall provide a formal update to the Board of County Commissioners on a quarterly basis as to the progress of the project, including but not limited to, 1) advancement and utilization of odor and emissions technology, 2) Operator's technologies utilized to reduce emissions and odors on the well pad(s), and 3) review of complaints from neighboring property owners and Community Count's 24/7 response system. This update shall be coordinated through the Community Development Department specifically including the Oil and Gas liaison's office. Updates shall begin at the beginning of construction and continue throughout drilling and completion operations and cease once the pad is in full production operations.
18. No Special Use Permit shall be issued to the Applicant/Operator (and no activity shall occur on the site) until all required local, state and federal permits, except those permits

which are obtained only after construction is complete, have been obtained and tendered to the County Community Development Department. A violation of any of the terms and/or conditions of these local, state and federal permits shall also be considered a violation of the Special Use Permit. The Air Quality permit shall be submitted as soon as it is received.

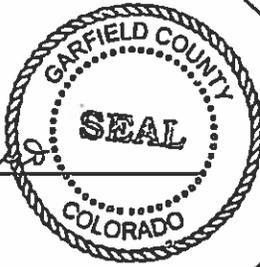
19. Prior to the issuance of the Special Use Permit, the Applicant should provide a discussion, calculations, and details for the proposed release structures from the detention pond.
20. The Operator will provide a draft site specific SPCC plan for B Pad within 30 days of installation of tank containment structures. The Operator shall provide a final site specific SPCC plan for the B Pad within six months of installation of the tank containment structures per EPA regulations. The site specific plan shall include information on storage tank sizes and the volume of secondary containment is calculated.
21. The Applicant (Ursa Operating Company LLC) shall provide a one-time contribution of \$50,000 to Garfield County (unless said \$50,000 payment has previously been paid for the D Pad Special Use Permit), prior to the issuance of the Special Use Permit, for site-specific air quality monitoring program designed, owned and operated by Garfield County. The sampler will collect a suite of 78 volatile organic compounds (VOCs) based of the EPA's TO-12 method which include the BTEX compounds. Results of the air monitoring will be publically available and reported to the BOCC on a regular basis. The Applicant shall provide the Garfield County Environmental Health Department with at least 2 weeks advance notice prior to drilling and completions activity. Permission shall be granted to Garfield County by the land owner (Battlement Mesa Partners) for the location of the sampling unit. A letter of agreement to the terms of the program shall be executed prior to the issuance of a special use permit.
22. Prior to construction, the Applicant shall design a proposed alternative physical water intake system for pulling water from the Colorado River up river from the B pad location to add as an alternative water supply in the event of a spill caused by the Applicant reaching the Colorado River the existing intake.
23. Applicant agrees and commits to a three year time frame which includes placing up to 24 natural gas wells into full production. This time frame will commence at the start of construction of a well pad.
24. The preferred/primary haul route for this Special Use Permit is the Upper Route (I-70 exit 75). The Lower Route (I-70 exit 72) shall be a secondary route.
25. All drill cuttings shall be disposed of in accordance with state law/COGCC regulations.
26. Sound barriers shall be included around the well pad and internal completions equipment. Additional sound walls closer to residential units shall be available upon mutual agreement

between the Operator, landowner, and homeowner(s).

27. Silica proppant shall be utilized only with silica controls including dustless silos or equivalent technology.

Dated this 4<sup>th</sup> day of January, A.D. 20 16.

ATTEST:



GARFIELD COUNTY BOARD OF COMMISSIONERS, GARFIELD COUNTY, COLORADO

Jean M Alberico  
Clerk of the Board

[Signature]  
Chairman

Upon motion duly made and seconded the foregoing Resolution was adopted by the following vote:

- COMMISSIONER CHAIR JOHN F. MARTIN, Aye
- COMMISSIONER MIKE SAMSON, Aye
- COMMISSIONER TOM JANKOVSKY, Aye

STATE OF COLORADO )  
 )ss  
County of Garfield )

I, \_\_\_\_\_, County Clerk and ex-officio Clerk of the Board of County Commissioners, in and for the County and State aforesaid, do hereby certify that the annexed and foregoing Resolution is truly copied from the Records of the Proceeding of the Board of County Commissioners for said Garfield County, now in my office.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said County, at Glenwood Springs, this \_\_\_ day of \_\_\_\_\_, A.D. 20\_\_.

County Clerk and ex-officio Clerk of the Board of County Commissioners

\_\_\_\_\_

**Site Plan**  
**Ursa Operating Company BMC B**  
**Located in the NW 1/4, Section 18**  
**Township 7 South**  
**Range 05 West of the 6th P.M.**  
**Basinment Mesa P.U.D. Phase J**  
**Garfield County, Colorado**

Basinment Mesa P.U.D. Phase J, located in the NW 1/4, Section 18, Township 7 South, Range 05 West of the 6th P.M., Garfield County, Colorado, is a 160-acre parcel of land owned by Ursa Operating Company, LLC. The land is currently used for agricultural purposes and is being converted to residential use. The site plan shows the proposed residential development, including the location of the proposed residential units, parking areas, and other facilities. The site plan is subject to the approval of the local planning commission and the state planning board.

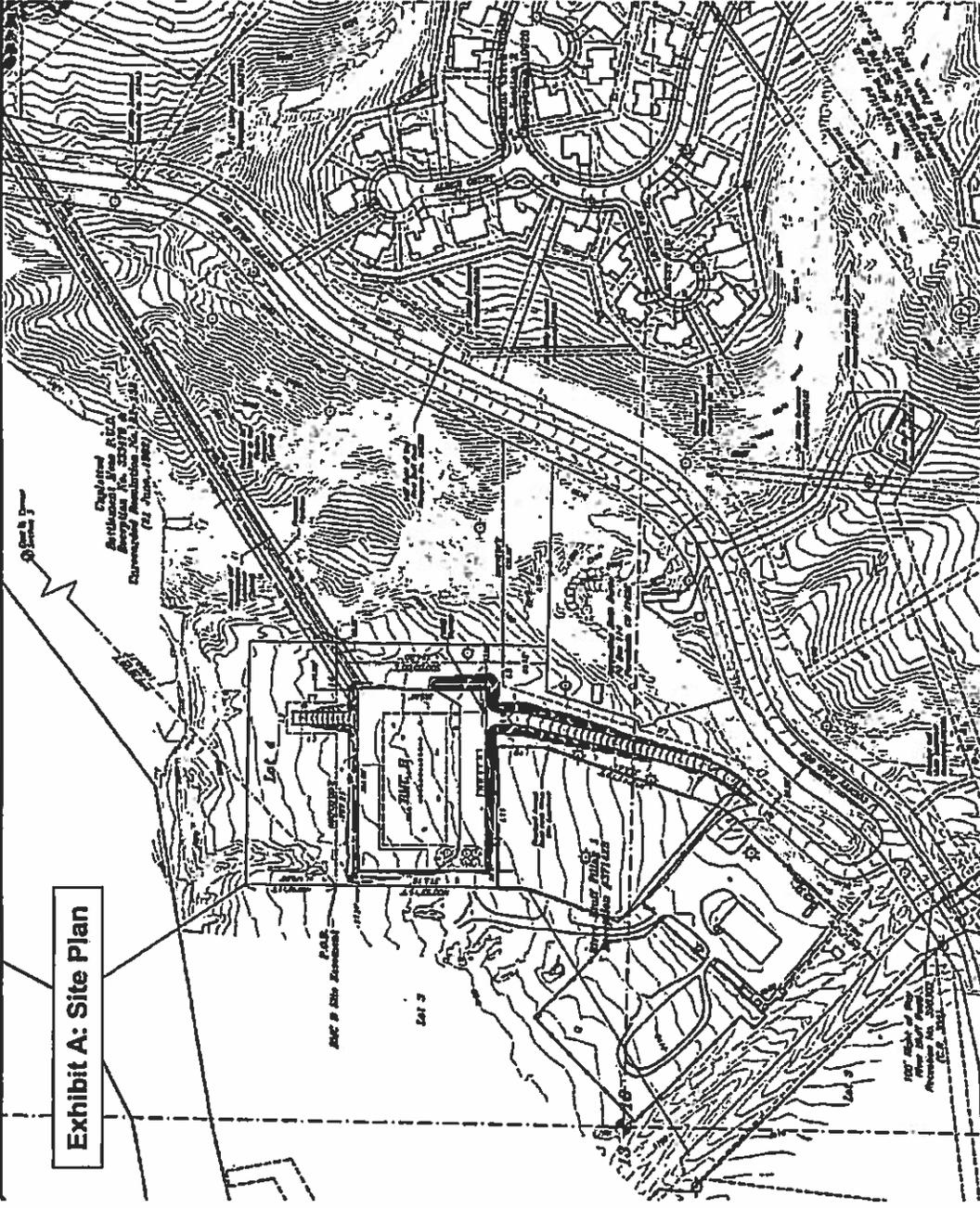
The proposed residential development consists of 160 residential units, including single-family detached homes, townhomes, and multi-family units. The units are distributed throughout the site, with a higher density in the central area. The site plan also shows the location of parking areas, a community center, and other amenities. The proposed development is consistent with the local zoning ordinance and the state planning board's requirements.

The site plan is prepared in accordance with the requirements of the local planning commission and the state planning board. The plan shows the proposed residential development, including the location of the proposed residential units, parking areas, and other facilities. The site plan is subject to the approval of the local planning commission and the state planning board.

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**Exhibit A: Site Plan**

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**URSA Operating Company, LLC BMC B**  
 Basinment Mesa PUD Phase 1

**CSGM**  
 113 West South Street, Suite 200  
 Colorado Springs, CO 81001  
 719.512.1121 www.cs-gm.com

**Ursa** OPERATING COMPANY

**M.I.R.**  
 Site Plan

Exhibit E  
 82

Reception: 872158  
 01/05/2018 04:19:45 PM Jean Ribberico  
 9 of 9 Rec Fee:\$0.00 Doc Fee:0.00 GARFIELD COUNTY CO

STATE OF COLORADO )  
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County of Garfield )

At a special meeting of the Board of County Commissioners for Garfield County, Colorado, held at the Grand Valley Recreation Center (Battlement Mesa) at 398 Arroyo Drive, Parachute, Colorado on Tuesday, the 15<sup>th</sup> day of December A.D. 2015, there were present:

- John Martin, Commissioner Chairman
- Mike Samson, Commissioner
- Tom Jankovsky, Commissioner
- Tari Williams, County Attorney
- Kelly Cave, Assistant County Attorney
- Jean Alberico, Clerk of the Board
- Kevin Batchelder, County Manager

when the following proceedings, among others were had and done, to-wit:

**RESOLUTION NO. 2016-03**

**A RESOLUTION OF APPROVAL GRANTED TO BATTLEMENT MESA LAND INVESTMENTS (SURFACE OWNER) AND URSA OPERATING COMPANY (OPERATOR) FOR A SPECIAL USE PERMIT FOR EXTRACTION AND PROCESSING OF NATURAL RESOURCES TO DEVELOP 28 NATURAL GAS WELLS ON A WELL PAD (KNOWN AS THE "D PAD") LOCATED IN THE EAST ½ OF THE NW ¼ OF SECTION 18, TOWNSHIP 7 SOUTH, RANGE 95 WEST OF THE 6TH P.M., IN THE BATTLEMENT MESA PLANNED UNIT DEVELOPMENT, GARFIELD COUNTY**

*PARCEL NO# 2407-081-00-152*

Recitals

- A. The Board of County Commissioners of Garfield County, Colorado, "Board" received a request from Battlement Mesa Land Investments (surface owner) and Ursa Operating Company (operator), collectively referred to herein as Applicant, for a Special Use Permit for Extraction and Processing of Natural Resources in the Battlement Mesa Planned Unit Development (PUD) to develop 28 natural gas wells on a well pad known as and referred to as the D Pad hereinafter, as further described in Exhibit A, Site Plan.
- B. The D Pad is located on an a 1,248.87 acre parcel of land owned by Battlement Mesa Land Investments legally described as shown in Exhibit B. The D Pad location and disturbance elf will be approximately 7 acres.
- C. The subject property and D Pad are located within unincorporated Garfield County in

the Low Density Residential sub-zone of the Battlement Mesa Planned Unit Development located east of the Town of Parachute, Colorado accessed by County Road 307 (known as River Bluff Road).

D. Extraction and Processing of Natural Resources may be permitted in the Low Density Residential sub-zone of the Battlement Mesa Planned Unit Development with a Special Use Permit.

E. The Board is authorized to approve, deny or approve with conditions a Special Use Permit through a Major Impact Review process pursuant to the Garfield County Zoning Resolution of January 2, 1979 (and zoning amendment adopted on October 15, 1979 in Resolution 79-132) processed as Major Impact Review pursuant to the Garfield County Land Use and Development Code of 2013, as amended.

F. The Planning Commission opened a public hearing on the aforementioned application on September 23, 2015 and continued the public hearing to October 28, 2015. The Planning Commission then closed the public hearing on October 28, 2015, and moved to recommend approval with conditions to the Board of County Commissioners by a vote of 6 to 1.

G. The Board of County Commissioners opened a public hearing on the 15<sup>th</sup> day of December, 2015 for consideration of whether the proposed Special Use Permit should be granted or denied, during which hearing the public and interested persons were given the opportunity to express their opinions regarding the request. This public hearing was continued to both December 16<sup>th</sup> and December 17<sup>th</sup>, 2015.

H. The Board of County Commissioners closed the public hearing on the 17<sup>th</sup> day of December, 2015 to make a final decision.

I. The Board of County Commissioners, on the basis of substantial competent evidence produced at the aforementioned hearing, has made the following determinations of fact:

1. That proper public notice was provided as required for the hearing before the Board of County Commissioners.
2. The hearing before the Board of County Commissioners was extensive and complete, that all pertinent facts, matters and issues were submitted and that all interested parties were heard at that hearing.
3. That for the above stated and other reasons the proposed Special Use Permit for *Extraction and Processing of Natural Resources* for Battlement Mesa Land Investments (Surface Owner) and Ursa (Minerals Lessee & Operator) is in the best interest of the health, safety, convenience, order, prosperity and welfare of the citizens of Garfield County.

4. That a waiver from Section 7-107 Access & Roadways (reduction of cross-slope from 3% to 2% for a gravel road) is granted.
5. That with the adoption of Conditions of Approval, the application is in general conformance with the 2030 Comprehensive Plan, as amended.
6. That with the adoption of the Conditions of Approval the application can adequately meet the requirements of the Garfield County Zoning Resolution of January 2, 1979 (and zoning amendment adopted on October 15, 1979 in Resolution 79-132) and the Garfield County Land Use and Development Code of 2013, as amended.

RESOLUTION

**NOW THEREFORE, BE IT RESOLVED** by the Board of County Commissioners of Garfield County, Colorado, that:

- A. The forgoing Recitals are incorporated by this reference as part of the resolution.
- B. The Special Use Permit for Extraction and Processing of Natural Resources in the Battlement Mesa Planned Unit Development (PUD) to develop 28 natural gas wells on a well pad known as and referred to as the D Pad is hereby approved subject to compliance with the following conditions:
  1. That all representations of the Applicant, either in testimony or the submitted application materials, shall be considered conditions of approval unless specifically altered by the Board of County Commissioners.
  2. If future extraction and processing activity (additional to what is being permitted herein) would be proposed, an amended Special Use Permit shall be required prior to that activity occurring on the site.
  3. The Operator (Ursa) acknowledges that the County has performance standards in place that could lead to revocation of the Special Use Permit if violations of the permit occur.
  4. Operation of the facility must be in accordance with all Federal, State and Local regulations and permits governing the operation of this facility.
  5. The County commits to notifying the operator of any compliance concern. This may include direct notice by Garfield County to other affected permitting agencies if necessary depending on the compliance concern.

6. The County can request a site inspection with reasonable notice to the Operator. Full access to any part of the site will be granted. On request, all paperwork must be shown. The County cannot request a large number of inspections that would interfere with normal operation without cause.
  
7. All extraction and processing activities shall be required to comply with the following performance standards:
  - a. Volume of the sound generated: Every use shall be so operated that the volume of sound inherently and recurrently generated does not exceed 70 dB(A) from 7:00 AM to 7:00 PM and 65 dB(A) from 7:00 PM to 7:00 AM, measured 350 feet from the edge of the pad. As set forth in COGCC Regulation 802(b), the noise levels shall be subject to an increase by 10 dB(A) for a period not to exceed 15 minutes in any one (1) hour period and cannot exceed 65 dB(A) for shrill or periodic impulsive noise. Complaint protocols shall be governed by COGCC Rule 802(c);
  
  - b. Vibration generated: every use shall be so operated that the ground vibration inherently and recurrently generated is not perceptible, without instruments, at any point of any boundary line of the property on which the use is located;
  
  - c. Emissions of smoke and particulate matter: 1) every use shall be so operated so as to comply with all Federal, State and County air quality laws, regulations and standards, and 2) applicant Operator will have water trucks onsite for dust abatement during construction;
  
  - d. Emission of heat, glare, radiation and fumes: every use shall be so operated that it does not emit heat, glare, radiation or fumes which substantially interfere with the existing use of the adjoining property or which constitutes a public nuisance or hazard. Flaring of gases, aircraft warning signals, reflective painting of storage tanks, or other such operations which may be required by law as safety or air pollution control measures shall be exempted from this provision;
  
  - e. Storage area, salvage yard, sanitary land-fill, and mineral waste disposal areas:
    - i. Storage of flammable, or explosive solids, or gases, shall be in accordance with accepted standards and laws and shall comply with the National Fire Code;
  
    - ii. At the discretion of the County Commissioners all outdoor storage facilities for fuel, raw materials and products shall be enclosed by a fence or wall adequate to conceal such facilities from adjacent property;
  
    - iii. No materials or wastes shall be deposited upon a property in such form or

manner that they may be transferred off the property by any reasonable foreseeable natural causes or forces;

- iv. All materials or wastes which might constitute a fire hazard or which may be edible by or otherwise be attractive to rodents or insects shall be stored outdoors in accordance with applicable State Board of Health Regulation;
  - f. Water pollution: in a case in which potential hazards exist, it shall be necessary to install safeguards designed to comply with the Regulations of the Environmental Protection Agency before operation of the facilities may begin.
8. All lighting, except as demonstrated for safety reasons, shall be directed inward and downward and be shaded in order to prevent direct reflection on adjacent property and residences in the area. LED lights will be used when possible and practical. Workers will be advised when moving light plants to ensure that the light is focused directly on the work being done. Most lighting will be below the sound wall. Drilling mast lighting that is above the sound wall will be downcast and/or shielded to reduce fugitive light outside sound wall and well pad. Safety considerations will take precedence.
  9. The construction of the D Pad shall be limited to the hours of 7:00AM to 7:00PM, with the exception of emergencies and episodic events beyond Ursa's control. Drilling may occur continuously 24 hours a day. Well completion activity shall be limited to occurring between 7:00AM and 7:00PM. Once the wells are in production, vehicle trips to the pad shall be limited to the hours of 7:00AM to 7:00PM, with the exception of emergencies and episodic events beyond Ursa's control.
  10. Operator will comply with COGCC Series 1100 rules and associated guidance which requires at least one annual pressure test be performed. Operator shall utilize only welded and flanged connections for all buried flowlines. The Applicant shall bed and partially backfill flowlines on the pad with non-native backfill to eliminate the corrosive soil concern. Operator will line all flowline trenches with a bentonite liner at least 6 inches in depth.
  11. Operator shall comply with the CDPHE regulations and air quality permit conditions for emission controls considering technically and economically feasible BMPs. All facilities onsite shall be subjected to an instrument-based leak detection and repair (LDAR) inspection at least monthly during drilling and completion and quarterly during production. If a leak over 10,000 ppm hydrocarbons is discovered, the first attempt to repair the leak shall be made as soon as reasonably possible and in accordance with state law.
  12. The Operator shall comply with COGCC green completion practices and EPA's natural gas STAR program to reduce VOC emissions to the lowest level technically possible for the wells on the D Pad. Additionally, the Applicant commits to using carbon blankets over

thief hatches on temporary tanks to reduce odors.

13. Once construction begins, the Operator shall treat all List A, B C noxious weeds within pad site perimeter and along access road according to Ursa's noxious weed management plan. This shall include three treatments annually by a licensed and certified herbicide applicator.
14. The Operator shall commit to ensuring truckloads of dirt, sand, aggregate materials, drilling cuttings, and similar materials are covered to reduce dust and PM emissions during transport.
15. The Operator shall provide a formal update to the Board of County Commissioners on a quarterly basis as to the progress of the project, including but not limited to, 1) advancement and utilization of odor and emissions technology, 2) Operator's technologies utilized to reduce emissions and odors on the well pad(s), and 3) review of complaints from neighboring property owners and Community Count's 24/7 response system. This update shall be coordinated through the Community Development Department specifically including the Oil and Gas liaison's office. Updates shall begin at the beginning of construction and continue throughout drilling and completion operations and cease once the pad is in full production operations.
16. No Special Use Permit shall be issued to the Applicant/Operator (and no activity shall occur on the site) until all required local, state and federal permits, except those permits which are obtained only after construction is complete, have been obtained and tendered to the County Community Development Department. A violation of any of the terms and/or conditions of these local, state and federal permits shall also be considered a violation of the Special Use Permit. The Air Quality permit shall be submitted as soon as it is received.
17. The Operator will provide a draft site specific SPCC plan for D Pad within 30 days of installation of tank containment structures. The Operator shall provide a final site specific SPCC plan for the D Pad wells pad within six months of installation of the tank containment structures per EPA regulations. The site specific plan shall include information on storage tank sizes and the volume of secondary containment is calculated.
18. Prior to the issuance of the Special Use Permit, the Applicant should provide a discussion, calculations, and details for the proposed release structures from the detention pond.
19. Prior to the hearing before the Board of County Commissioners, the Applicant should evaluate if a culvert is necessary at the driveway intersection with River Bluff Road. It appears from the topography that grading of the area to drain may also be necessary to get runoff to drain to the existing culverts.
20. The Applicant (Ursa Operating Company LLC) shall provide a one-time contribution of

\$50,000 to Garfield County (unless said \$50,000 payment has previously been paid for the B Pad Special Use Permit), prior to the issuance of the Special Use Permit, for site-specific air quality monitoring program designed, owned and operated by Garfield County. The sampler will collect a suite of 78 volatile organic compounds (VOCs) based of the EPA's TO-12 method which include the BTEX compounds. Results of the air monitoring will be publically available and reported to the BOCC on a regular basis. The Applicant shall provide the Garfield County Environmental Health Department with at least 2 weeks advance notice prior to drilling and completions activity. Permission shall be granted to Garfield County by the land owner (Battlement Mesa Partners) for the location of the sampling unit. A letter of agreement to the terms of the program shall be executed prior to the issuance of a special use permit.

- 21. The Application proposes a significant landscaping program; as a result, the Applicant should provide more information regarding the ongoing irrigation for this plan.
- 22. Applicant agrees and commits to a three year time frame which includes placing up to 28 natural gas wells into full production. This time frame will commence at the start of construction of a well pad.
- 23. The preferred/primary haul route for this Special Use Permit is the Upper Route (I-70 exit 75). The Lower Route (I-70 exit 72) shall be a secondary route.
- 24. All drill cuttings shall be disposed of in accordance with state law/COGCC regulations.
- 25. Sound barriers shall be included around the well pad and internal completions equipment. Additional sound walls closer to residential units shall be available upon mutual agreement between the Operator, landowner, and homeowner(s).
- 26. Silica proppant shall be utilized only with silica controls including dustless silos or equivalent technology.

Dated this 4<sup>th</sup> day of January, A.D. 20 16.

ATTEST:

Jean M Alberico  
Clerk of the Board

GARFIELD COUNTY BOARD OF COMMISSIONERS,  
COUNTY, COLORADO

[Signature]  
Chairman









Reception#: 872159  
 01/05/2016 04:19:45 PM Jean Alberico  
 10 of 10 Rec Fee: \$0.00 Doc Fee: 0.00 GARFIELD COUNTY CO

**Exhibit B: Legal Description**

East 1/2 of the NW 1/4 of Section 18, Township 7 South, Range 95 West within the Battlement Mesa Planned Unit Development, a parcel having 1248.87 acres (PID: 2407-081-00-152).

Section: 8 Township: 7 Range: 95 ALL THAT PROPERTY LOCATED IN SEC 5, 6, 7, 8, 9, 10, 16, 17, 18, 19 IN 7-95. ALSO THAT PROPERTY LOCATED IN SEC 13 & 24 7-96 ALL WITHIN THE BATTLEMENT MESA PUD. EXCEPT A TR CONT 6.20 AC DESC IN REC #502259. EXCEPT TOWN CENTER FL #5 AS DESC IN REC #513419 CONT 22.370 AC. ALSO A TR OF LAND CONT 18.574 AC +/- AS DESC IN BNDY LINE ADJ BK 1703/327, 330 EXCEPT A TR OF LAND CONT. 37.65 AC +/- AS DESC ON THE FINAL PLAT, STONE QUARRY COMMONS, A RE-SUB OF LOTS 5-1 & 5-2 OF BATTLEMENT MESA PUD REC #691907. EXCEPT A TR OF LAND CONT 35.461 AC +/- AS DESC IN WD BK 1877/16 EXCEPT A TR OF LAND CONT 35.33 AC +/- AS DESC IN SWD BK 1947/706. EXCEPT A TR OF LAND CONT. 11.81 AC +/- AS DESC IN THE TOWN CENTER, FLG #6, BATTLEMENT MESA PUD, REC # 743233 & GWD #743971. EXCEPT FOR 6 TRACTS OF LAND - PARCEL 1, 57.68 AC +/-; PARCEL 2, 76.26 AC +/-; PARCEL 3, 52.80 AC +/-; PARCEL 6, 35.67 AC +/-; PARCEL 7, 56.17 AC +/- AND OLD HIGH SCHOOL PARCEL, 41.35 AC +/- AND DESC IN SWD REC #740298, & TOTALING 319.93 AC +/-

Practical Description: The proposed D Pad location is on a 7 acre portion of the 1248.87 acres adjacent to and southeast of River Bluff Road (CR 307) in the Battlement Mesa PUD. The proposed site is west of the Valley View Village residential area and south of the Willow Creek Village residential area.