Public Meeting for the Board of County Commissioners to discuss approaches, other than local land use regulations, to reduce the impacts of oil and gas development in Boulder County

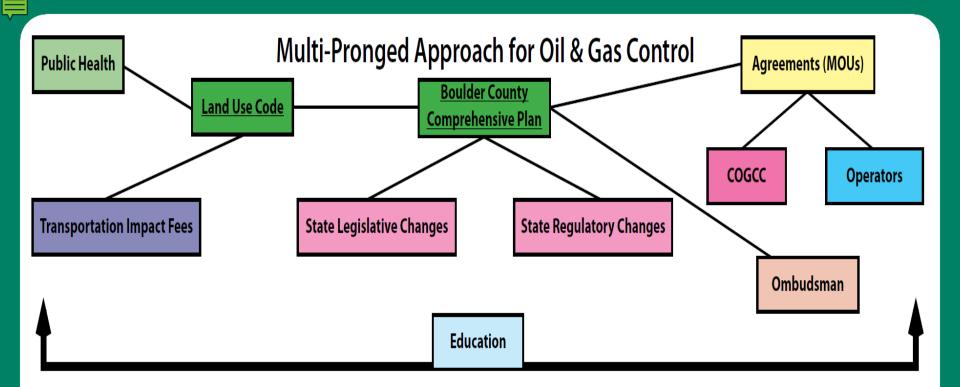
> Board of County Commissioners April 25, 2017 11:00 a.m.



Background

- Adopted new regulations March 23, 2017
- Currently working on Implementation of those regulations
- Moratorium set to expire May 1
- Concurrently working on numerous other efforts, aside from the regulations





- Changes to state and federal legislation
- Changes to COGCC rules

- Changes to state AQCC rules
- Statewide Ballot Initiatives



Today's Agenda - April 25

I. Updates

- Litigation update, Legislative update, Crestone Comprehensive
 Development
- **II.** Multi-pronged Approach Efforts & Initiatives
 - Sustainability programs, Public Health studies and efforts, 2017
 Legislation and Policies, Statewide Initiatives, State Rulemakings,
 Legal Efforts, etc.
- **III. Board Discussion**



Presenting Staff

Kim Sanchez - Chief Planner, Land Use Department

ksanchez@bouldercounty.org / 303-441-3930

David Hughes – Deputy County Attorney, County Attorney's Office

dhughes@bouldercounty.org / 303-441-4976

Mark Ruzzin – Senior Policy Analyst, Commissioners' Office

mruzzin@bouldercounty.org / 303-441-4567

Kate Burke – Assistant County Attorney, County Attorney's Office

kaburke@bouldercounty.org / 303-441-3869

Susie Strife - Sustainability Coordinator, Commissioners' Office <u>sstrife@BoulderCounty.org</u> / 303-441-4565

Pam Milmoe – Air Quality and Business Sustainability Coordinator, Boulder County Public Health pmilmoe@bouldercounty.org / 303-441-1189







Litigation Update

- Attorney General lawsuit
- Martinez v. COGCC
- Neighbors Affected by Triple Creek v. COGCC
- Weld Air and Water (et al.) v. COGCC
- Juliana v. United States
- Climate Bill of Rights



Legislative Update

2017 Introduced State Oil and Gas Legislation

Bill #	Position	Short Title	Status
<u>HB17-1124</u>	Oppose	Local Government Liable Fracking Ban Oil and Gas Moratorium	Postponed Indefinitely
<u>HB17-1256</u>	Support	Oil and Gas Facilities Distance from School Property	Postponed Indefinitely
<u>HB17-1336</u>	Support	Additional Protections Forced Pooling Order	In House Appropriations
<u>SB17-014</u>	Monitor	Limits on Underground Storage Tank Regulation	In House Transportation & Energy
<u>SB17-035</u>	Oppose	Tampering with Oil and Gas Equipment	Postponed Indefinitely



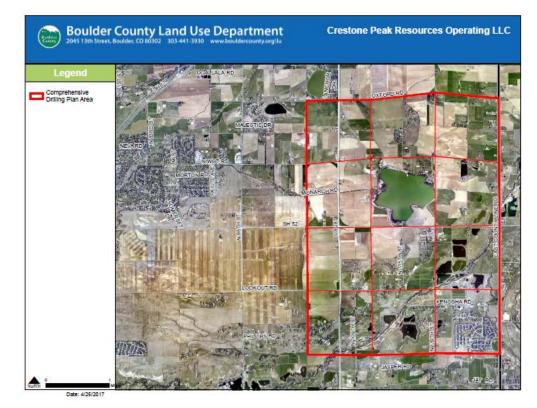
Crestone Peak Resources Operating LLC Application for CDP

Crestone Comprehensive Drilling Plan (CDP) proposal:

- Feb. 2017: Crestone submits application for CDP to COGCC
 - Maximum 216 wells divided among maximum 18 sites
 - o 12 square miles in eastern Boulder County
- COGCC process is unclear
 - County staff pushing for information
 - COGCC staff says public will have opportunities for input
- May 1—COGCC hearing on Crestone request for hold on COGCC permitting
 Final CDP expected in late fall 2017
- Regardless of CDP outcome, Crestone will have to go through County regulatory process
- County requests public presentation by Crestone



Crestone CDP





Property Search Jobs Volunteer Elections County Government Departments Contact 👸 Select Language

Challent I								
Boulder	FAMILIES	OPEN SPACE	PROPERTY	ROADS	ENVIRONMENT	SAFETY	LICENSES, PERMITS	Q,
County	& ADULTS	& RECREATION	& LAND	& TRANSPORTATION	& SUSTAINABILITY	& LAW	& RECORDS	

Crestone Peak Resources' Comprehensive Drilling Plan Application to Colorado Oil and Gas Conservation Commission

On Feb. 22, 2017, Creatone Peak Resources Operating LLC filed an application with the Colorado Oil and Gas Conservation Commission (COGCC), asking approval of a "Comprehensive Drilling Plan", or CDP, in Boulder County, A CDP is a preliminary step toward oil and gas development that attempts to plan for development throughout a large area. Crestone's CDP covers 12 square miles in eastern Boulder County, between Longmont and Erie. Crestone's CDP application contains few details on its plans; it has said it intends to develop the substance of the plan over the next 6-9 months; with input from local governments, state agencies and affected landowners. The application does call for a maximum of 216 wells divided among a maximum of 18 separate well pads throughout the CDP area. In addition, Crestone asked the COGCC to put a hold on accepting any applications to drill in the CDP area while the plan is developed. The COGCC is scheduled to make a decision on the hold request at its meeting May 1. The County supports the request for a hold on drilling permit applications at the state level. However; County staff is well aware of the significant concerns raised by large-scale drilling in the county and is committed to doing all it can to avoid or mitigate any impacts involved with the CDP. County staff from all affected departments, itstif has pushed for further information on how the process will be conducted after May 1 and when and how the public can give input and will make all information received available to the public. Whether on not the CDP is utfinately approved. Crestone and any other operators will be required to go through the new Boulder County regulatory process before beginning any development. Below are all the major documents filed in the CDP process.

- Crestone Notice of Hearing 170500190 (May 1-2, 2017)
- Crestone Comprehensive Drilling Plan application 170500189 2
- Crestone drilling and spacing unit application 170500190 [a]
- Crestone drilling and spacing unit application 170500191 [A]
- Crestone drilling and spacing unit application 170500192
- Kerr-McGee's Protest to Variance Request
- 8 North's Protest to Variance Request []

Documents:

SUBMIT A COMMENT VIA EMAIL

- Kenosha RPO's Motion to Intervene
- Boulder County's Rule 510 Statement, submitted April 21, 2017 in advance of the May 1 COGCC hearing on the standstill issue <a>D Operators 8 North and Kerr-McGee filed substantial protests to Crestone's request for an interim hold on drilling applications at the COGCC. County staff believe such a hold is to the County's benefit and therefore filed the following statement for the COGCC's consideration at its May 1 hearing. Staff also intends to appear and speak at the hearing on the issues raised by the hold request.

View COGCC rules for hearings 20. Rules 509 and 510 address objections and testimony at hearings. View COGCC instructions to submit a written statement under Rule 510 20.

www.bouldercounty.org/property-and-land/land-use/planning/oil-gas-development/









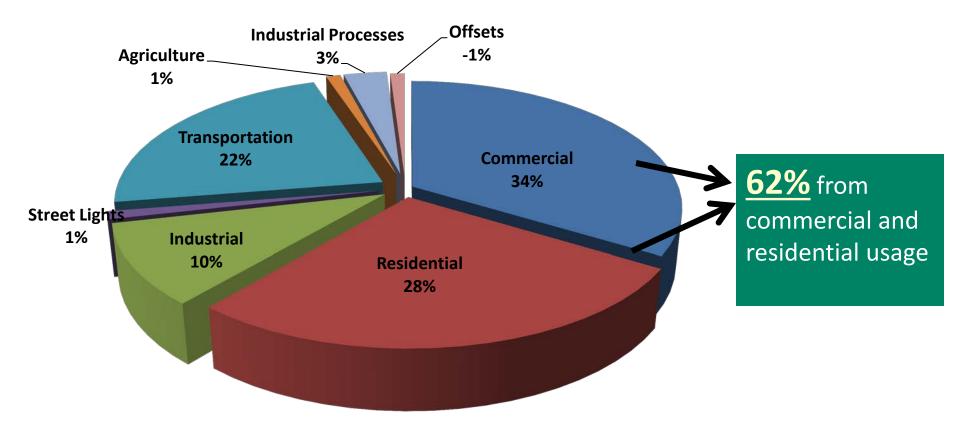


Reducing our Reliance on Fossil Fuels





COUNTYWIDE GHG EMISSIONS





 EnergySmart
 <u>15,200</u> homes served
 Energy advising, incentives and financing



 Partners for a
 Clean Environment
 <u>4,000</u> business served



- 35 Businesses
- 328 Homes
 <u>3MW</u> of Solar



Almost <u>300</u>
electric vehicles sold
EV charging stations

SUSTAINABILITY SUCCESS

- Just under 30,000 metric tones CO2e reduced/yr
 or <u>6,220</u> cars off the road/yr
- For every \$1 we spend, \$5 is recirculated
- Over \$43 million in local investment



NEW SUSTAINABILITY INITIATIVES

- Communities for Climate Action (CC4CA)
 - **14** member communities
- Carbon Sequestration Study
- Fossil Free Pilot



FOSSIL FREE HOME PILOT

Energy Advising & Support

Financing

Incentives



Eleanor Bryon Household

1831 Spruce St, Boulder, CO 80302 ((303) 810-8868

Paie of

002.0854

Previously Completed Upgrades

About This Household

This Home's Solar Potential





HVAC: Forced-air natural gas furnace. Estimated install year: 2005. Estimated replacement year: 2020. Estimated install year: 2000. Estimated replacement year: Now HW: Natural gas tank water heater.

- Drver: Electric
- Cooktop: Natural Gas Oven: Natural Gas
- Solar PV: None
- Vehicles:
- · 2008 Honda Accord, 12,000 miles/year, 28 mpg
- 2000 Nissan Pathnder, 4,000 miles/year, 18 mpg

Historical Permits

	Replaced	Expected replacement		Replaced	Program
HVAC: Natrual gas furnace:	2005	2020	Air Sealing	2012	Energy Smart
DHW: Natural gas hot water heater	2000	2017	Attic Insulation	2012	Energy Smart
Roof: Tear o replacement	1988	2018	Replaced Windows	2012	Energy Smart
Electrical: Electrical for remodel	2005				
Gas Fireplace: Gas log insert	2005	-			

PACKAGE 2

Upgrade Scenarios Summary

PACKAGE 1
Home Performance
Air scaling Waather stripping at doors Crawl space sealing and insula
Additional Solar Energy (3% C02 Reduction: 2,6 Tons/year Project Cost \$3,930

Home Performance | Heat pump HKAC + Package 1 . New HVAC on upper Level . New HVAC and water heater in cottage Additional Salar Energy 8% CO2 Reduction: 13.2 Torn/year Project Cost \$55,911

Options based on house characteristics, energy usage and savings epportunities PACKAGE 3

Home Performance | High Efficiency HWAC Increased Selar Capacity

· Package 2 Upgraded PV System
 Add a PV pergala in rear of home

Selar Energy: 100% CO2 Reduction: 17.4 Tons/year Project Cost \$55,911 + PV Sextern Lapprox \$75,0001

BOULDER COUNTY PUBLIC HEALTH STUDIES AND OTHER EFFORTS



BC Oil and Gas Voluntary Inspection Program

- Since January of 2014- 541 visits conducted throughout Boulder County
- 291 visits conducted with Optical Gas Imaging Camera
 - Leaks detected with IR Camera at 133 (45%) of the visits
 - Since January of 2014 there have been 15 spills reported to COGCC- 4 have threatened ground water.
 - Worked with operators to provide proper containment during spill clean up
- Air/Water/Soil Concerns
- Technology advancements
- Continue to conduct inspections through this program and work to get issues resolved
- Public Health will participate in 2017 CDPHE Stakeholder Process (Air Quality Control Commission)
 - Increased frequency for LDAR
 - Include all hydrocarbons
 - Pneumatic Devices

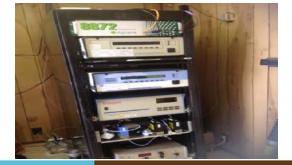


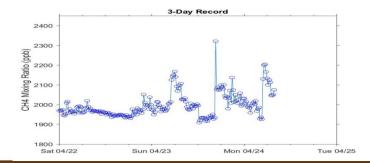
Current and Ongoing Research

Study	Area of Study	Performed BY	Year	Status
Study of Hydraulic Fracturing on Drinking Water	Hydraulic Fracturing and Drinking Water	EPA	2016	Complete
Garfield County Gas Emissions Study	Oil & Gas Air Emissions	Colorado State University (CSU)	2016	Complete
North Front Range Oil and Gas Emissions Study	Oil & Gas Air Emissions	CSU, CDPHE	2016	Complete- Health Risk Assessment being conducted
Air, Water, Gas- CU NSF Sustainability Research Network	Air Quality, Water Quality, and Societal Impacts	CU	2017	Initial studies complete
Front Range Air Pollution and Photochemistry Experiment	Air Emissions	CDPHE, CU, CSU, UC Berkley, NASA, NOAA, NCAR	2017	Initial analysis is being reported
Childhood hematologic cancer and residential proximity to oil and gas development	Public Health	CU- School of Public Health	2017	Complete

2017 VOC Monitoring Study

- Enable us to quantify and better understand the impact of oil and gas emissions on air quality.
- Monitoring is co-located with the state's ozone monitoring site, at the Boulder Reservoir
- Provide Boulder County with a baseline against which we can measure future increases in the amount of local and regional oil and gas emissions- VOC and Toxic Air Pollutants







2017 Baseline Groundwater Quality Monitoring

- Currently, knowledge of groundwater quality, in Boulder County, is limited.
- 400 samples will be collected over an 18 month period-nearly 30% of domestic use wells
- This research will generate a robust baseline of the quality and characteristics of the groundwater in Eastern Boulder County.
- Create a record that can be referenced if any changes in groundwater quality occur
- Achieving the goals of this study will be reliant upon the willingness of water well owners taking part in this study



2017 State Legislative Agenda -Oil and Gas Policies

- Support legislation and other policy approaches to address the air and water quality impacts associated with oil and gas operations
- Support legislation to affirm and expand the authority of Colorado counties and municipalities to regulate land use activities of the oil and gas industry
- Support legislation to amend the Oil and Gas Conservation Act to reform various operating practices of the COGCC
- Support increasing Colorado's severance taxes and pursuing other approaches to increase state revenues received from the oil and gas industry
- Support legislation to affirm and expand the authority of Colorado counties and municipalities to impose impact and other fees on oil and gas activities
- Support creation of a scientific advisory committee to provide independent review of and advice regarding the technical bases for the regulations promulgated by the COGCC



Statewide Initiatives

- Amendment 71
- Potential Statewide Ballot Issues



State Rulemakings

• COGCC "C"-Scale Noise and Vibration

Mitigation

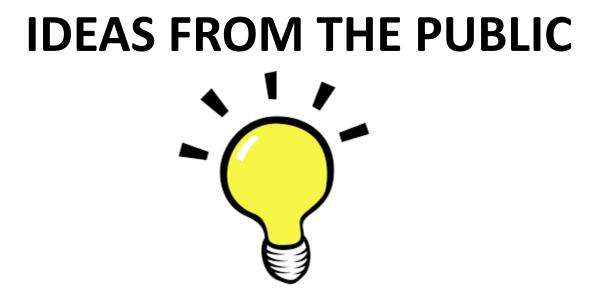
• Initiation of other rulemakings



Legal Efforts

- Continued amicus and other litigation support
- Scrutiny of COGCC decisions
- Legal options to hold industry accountable for costs and burdens of climate change





E-mail: <u>oilgascomment@bouldercounty.org</u>





Oil & Gas Development

Boulder County is concerned about the potential for significantly expanded oil and gas development within the county, and supports appropriate, tighter restrictions and increased local control to mitigate the impacts of these activities. A temporary moratorium on accepting new applications for oil and gas development in unincorporated Boulder County is currently in place through May 1, 2017.

Public Comment Submission

SUBMIT A COMMENT VIA EMAIL ER

Crestone Peak Resources' Comprehensive Drilling Plan Application to Colorado Oil and Gas Conservation Commission

On Feb. 22, 2017, Creatone Peak Resources Operating LLC field an application with the Cohrado Oil and Gas Conservation Commission (COGCC), asking approval of a "Comprehensive Drilling Plan," or CDP, in Boulder County, A CDP is a preliminary step toward oil and gas development that attempts to plan for development throughout a large area. Creatone's CDP covers 12 square miles in eastern Boulder County, between Longmont and Eric. Creatone's CDP application contrains few details on its plans; it has said it intends to develop the substance of the plan over the next 6-9 months, with input from local governments, state agencies and affected landowners. The application does call for a maximum of 216 wells divided among a maximum of 18 separate well pads throughout the CDP area. In addition, Crestone asked the COGCC to put a hold on accepting any applications to drill in the CDP area while the plan is developed. The COGCC is scheduled to make a decision on the hold request at its meeting May 1. The County supports the request for a hold on drilling permit applications at the state level. However, County staff is well aware of the significant concerns raised by large-scale drilling in the county and the countited to doing all it can to avoid or mitigate any impacts involved with the CDP. County staff from all affected departments, including the Land Use Department and County



BOCC DISCUSSION



