

Mountains to Plains Energy by Design

TECHNICAL TEAM WEBINAR * APRIL 10, 2013





Topics:

- Project refresher
- Results
- Lessons learned & next steps



PROJECT REFRESHER



Goal:

To allow for reasonable energy development while achieving biological, cultural, scenic and recreational resource conservation goals.

Main partners: TNC, State Land Board, City of Fort Collins, Larimer County

Tool: Energy by Design



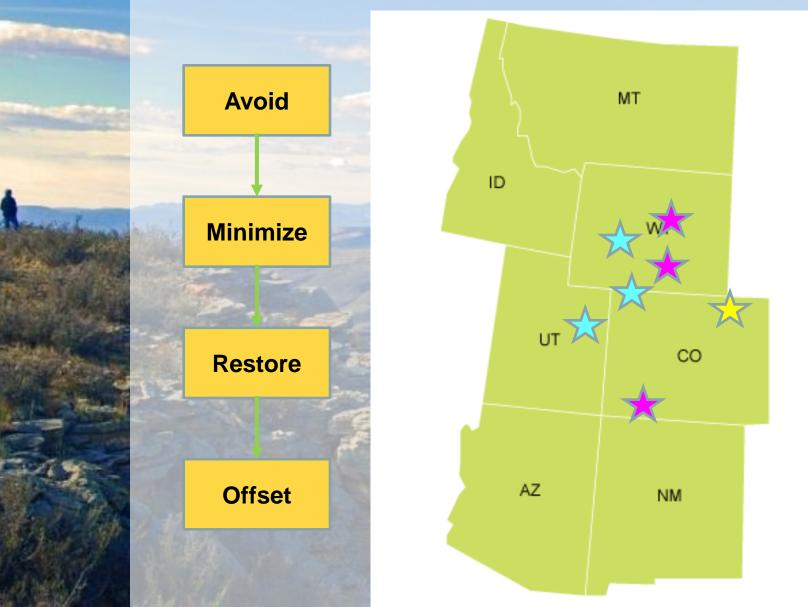






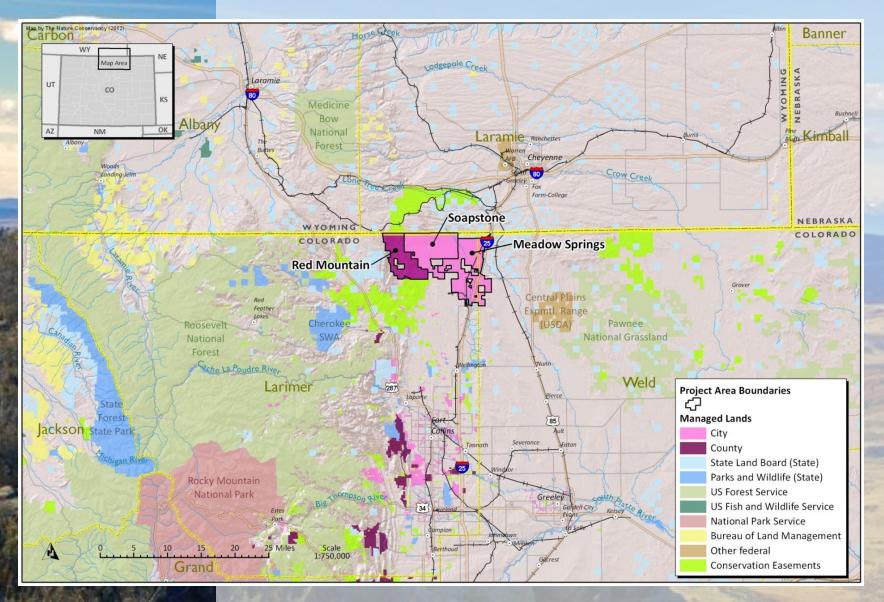


Energy by Design: Net Zero Impact



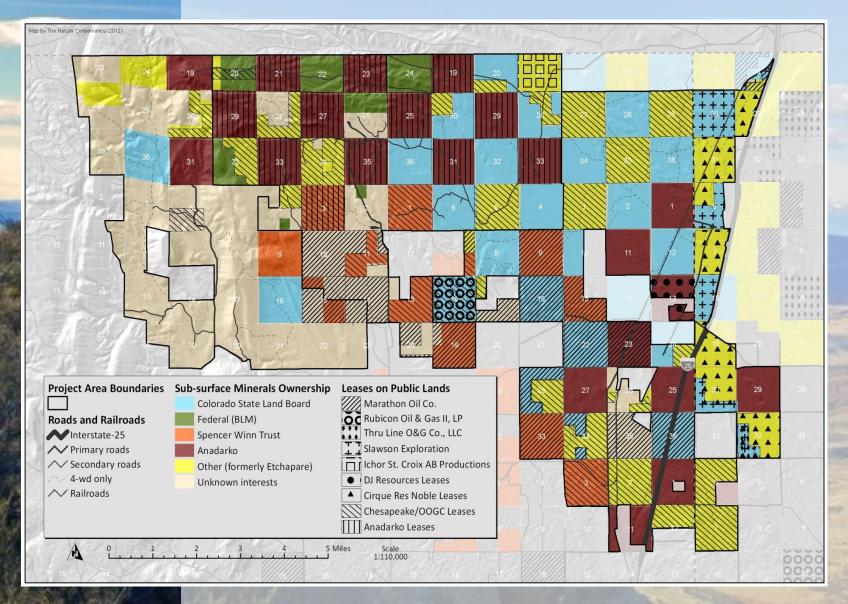


Project area: 60,000 acres





Mineral ownership and leases





Thank You, Technical Team

Contract

MOU

TNC

- State Land Board
- City of Fort Collins
- Larimer County



Colorado Parks & Wildlife

- Colorado Natural Heritage Program
- Colorado State
 University
- Legacy Land Trust
- Marathon Oil
- Natural Resources
 Conservation Service
- Platte River Power Authority
- Rocky Mountain Bird Observatory
- U.S. Fish & Wildlife Service



Process



RESULTS



Surface Occupancy (S.O.) Zones

Highest Values/ Most Restrictive

No S.O.

Limited S.O.

Controlled S.O.

Preferred S.O.

Lowest Values/ Least Restrictive

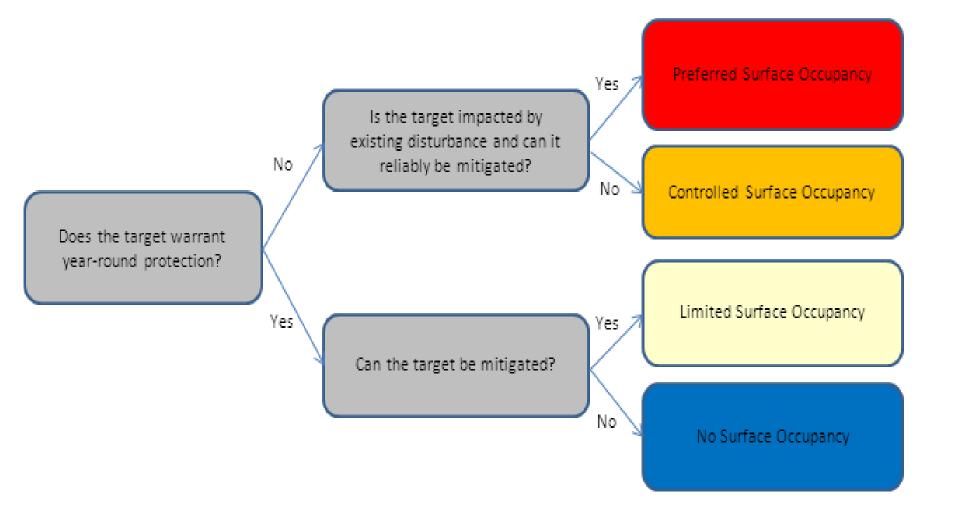






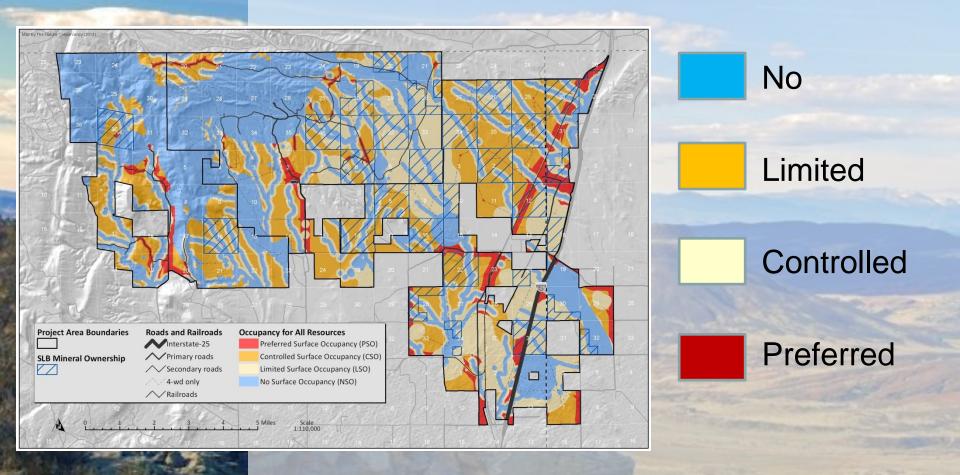


Surface Occupancy (S.O.) Zones



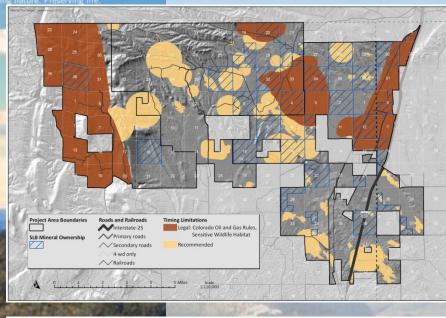


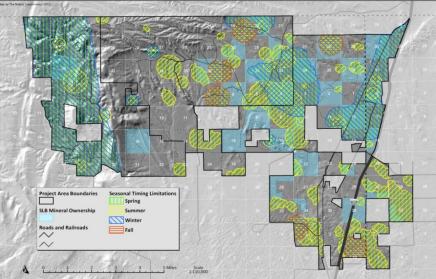
Surface Occupancy Zones





Timing limitations











Surface development standards and mitigation

• Disturbance caps

•

- Compensatory mitigation fees
- Reclamation provisions

City is creating Best Management Practices



Disturbance caps

• Intent

- Provide for minimum number of well pads to balance access with conservation
 - SUAs to determine max. density allowed

Amounts

- Long-term: 3% per section or lease (4 pads)
- Temporary: 1.25% (develop 1 pad at a time)

Implementation

- Temporary and long-term impacts will count toward allotted acres until reclaimed
- Infrastructure sharing reduces acres by 50%.





- Intent
 - Encourage fewer impacts in sensitive areas
 - Secure funds to achieve net zero impacts

Important

- Long-term impacts only
- Funds managed by City and County

				1 well pad		2 well pads		3 well pads		4 well pads	
	Genera	Surface occupan-	Surface occupan								
Surface	l per-	cy area	-cy area								
occupan	acre	multiplie	base	Multi-	Final	Multi-	Final	Multi-	Final	Multi-	Final
-cy area	rate	r	rate	plier	fee	plier	fee	plier	fee	plier	fee
PSO	\$2,200	1.0	\$ 2,200	1.0	\$2,200	1.0	\$2,200	1.0	\$2,200	1.0	\$2,200
CSO	\$2,200	1.5	\$ 3,300	1.0	\$3,300	1.0	\$3,300	1.5	\$4,950	2.0	\$6,600
LSO	\$2,200	3.0	\$ 6,600	1.0	\$6,600	1.0	\$6,600	1.5	\$9,900	2.0	\$13,200

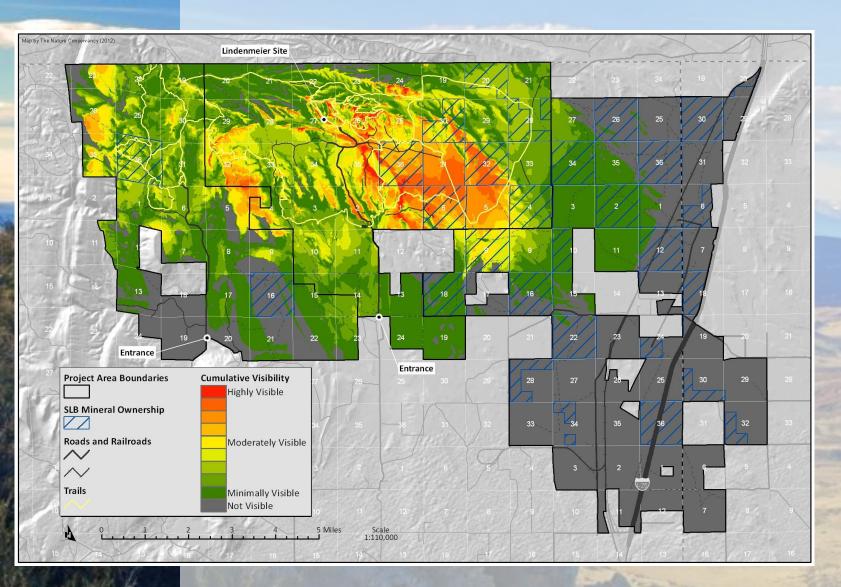


Reclamation standards

- Builds on oil and gas rules
- Bond \$10,000/acre
- Reference site
- Annual report to surface owner
- Standards
 - Topography and soils replace
 - Vegetation composition and cover at least 80% of reference site excluding weeds. Reflect composition of reference site.



Scenic and recreational values





Cultural resource potential

[Map not provided due to information sensitivity]

LESSONS & NEXT STEPS



Important lessons

- Results
 - Diverse partners = stronger results
 - Replicable methods
 - Results strongest if grounded in literature
 - Objective industry review is critical

Process

- Dedicated project management and strong facilitation are key
- Thoughts from technical team members?
- Shorter timeframe desired



Next steps – Mountains to Plains

Phase I: Energy by Design Plan (Led by TNC)

Phase II: Oil and Gas Leasing Plan (Led by SLB) Phase III: Surface Use Agreements (Led by the City/County)



Summary

- Project provides a foundation for providing reasonable access to oil and gas resources while protecting important biological, cultural, scenic and recreational values.
 - Replicable process
- Thank you again to the Technical Team



Colorado butterfly plant in Project Area © Crystal Strouse



Black-footed ferret in Poject Area (captive population) © Erik Rudolph



Bald eagle© Scott Copeland