

Types of Projects



Major Categories of Projects

- Linear Alignments (Roads/Utility Corridors/etc.)
- Oil & Gas Developments
- Mineral Sites
- Water Storage Tanks
- Communication Sites
- Wildlife & Range Improvements
- Vegetation Treatments
- Fire Rehabilitation Projects
- Recreation Sites

Linear Alignments

Design Considerations

- Follow contours of landform
- Co-locate rights-of-way
- Minimize cut and fill
- Avoid over-casting material

Linear Alignments

Follow contours of the landscape



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Linear Alignments

Co-locate rights-of-way



Gas line buried in lots of rock



It's not always necessary to clear the ROW

Linear Alignments

Minimize Cuts and Fills



Should this project have been built in this location?

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Linear Alignments

Avoid Over-casting Material



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Linear Alignments



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Oil & Gas Developments

Design Considerations

- Avoid hilltops and ridgelines
- Co-locate rights-of-way
- Minimize cut and fill
- Choose the appropriate color
- Use lower profile facilities
- Screen with vegetation & landforms
- Interim reclamation
- Final reclamation

Oil & Gas Developments

Avoid hilltops and ridgelines



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Oil & Gas Developments

Avoid over-casting material

This tank battery was installed on a 5 acre pad. There was no need to cast material over the edge of the rim or locate the tanks on the rim.

Non-BLM Land



Oil & Gas Developments

Co-locate rights-of-way

Bury utility and flow lines in or adjacent to the road



Oil & Gas Developments

Minimize cut and fill



This large pad avoids excessive cuts & fills

Oil & Gas Developments

Use lower profile facilities; place them in low areas



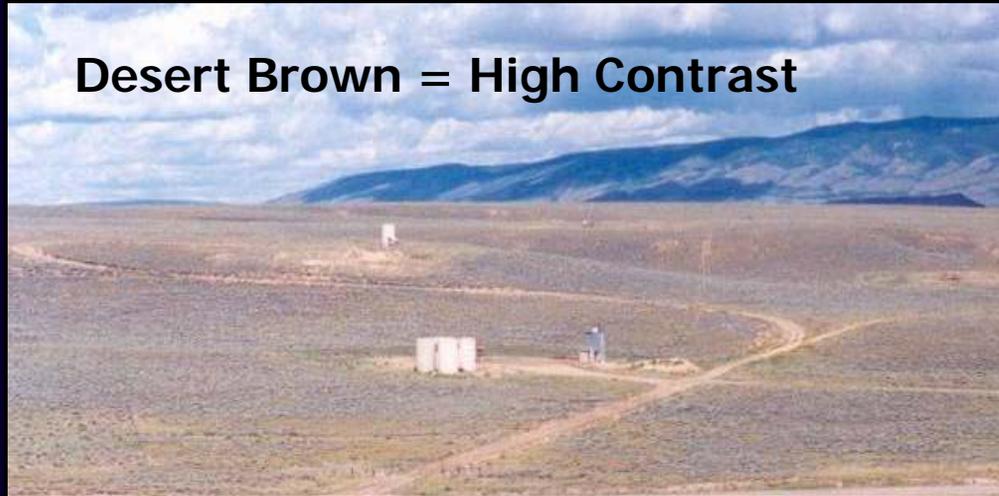
Buried Well Head

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Oil & Gas Developments

Repeat
Landscape
Color

Desert Brown = High Contrast



Shale Green
repeats color of
surrounding
vegetation

Oil & Gas Developments

Screen locations with vegetation/landforms



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Oil & Gas Developments

Screen locations with vegetation/landforms



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Oil & Gas Development

Always complete interim site reclamation



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Oil & Gas Developments

The Ultimate Goal: Good Reclamation & Land Restoration



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Mineral Sites

Design Considerations

- Minerals are where you find them
- Sand & Gravel, Hard Rock Minerals, etc.
- Visual Impact can still be minimized
- Heavy emphasis on Reclamation & Land Restoration

Mineral Sites

Often large-scale developments



Visual impacts are usually significant

Mineral Sites



Reclamation focuses on restoration of Form, Line, Color, & Texture of the site to pre-mining conditions

Water Storage Tanks

Design Considerations

- Avoid hilltops and ridgelines
- Screen with vegetation & landforms

Water Storage Tanks

Avoid hilltops & ridgelines



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Water Storage Tanks

Avoid hilltops & ridgelines



Water Storage Tanks

Screen with vegetation & landforms



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Water Storage Tanks



This combines excellent site selection with good design and an especially good color

Communication Facilities

Design Considerations

- Avoid hilltops and ridgelines
- Use minimum height necessary to provide service
- Minimize cut and fill
- Avoid over-casting material
- Choose the appropriate color
- Choose appropriate materials
- Screen (access, buildings, etc.) with vegetation & landforms

Communication Facilities

Often located on hilltops, of necessity



Communication Facilities



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Communication Facilities

Use minimum height necessary to provide service



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Communication Facilities

Choose the Appropriate Color



Wildlife/Range Improvements

Design Considerations

- Avoid hilltops and ridgelines
- Minimize cut and fill
- Choose the appropriate color
- Choose appropriate materials
- Screen (access, buildings, etc.) with vegetation & landforms

Wildlife/Range Improvements



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Wildlife/Range Improvements



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Recreation Sites

Design Considerations

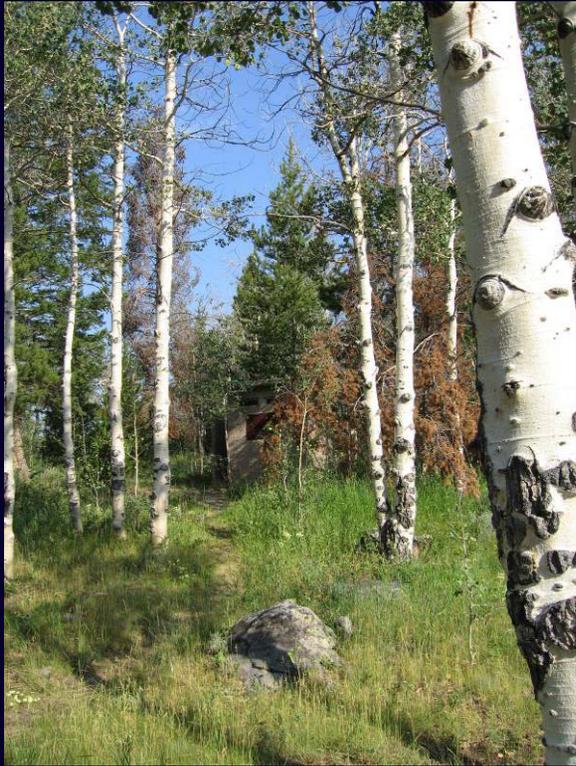
- Choose the appropriate color
- Choose appropriate materials
- Screen (access, buildings, etc.) with vegetation & landforms

Recreation Sites

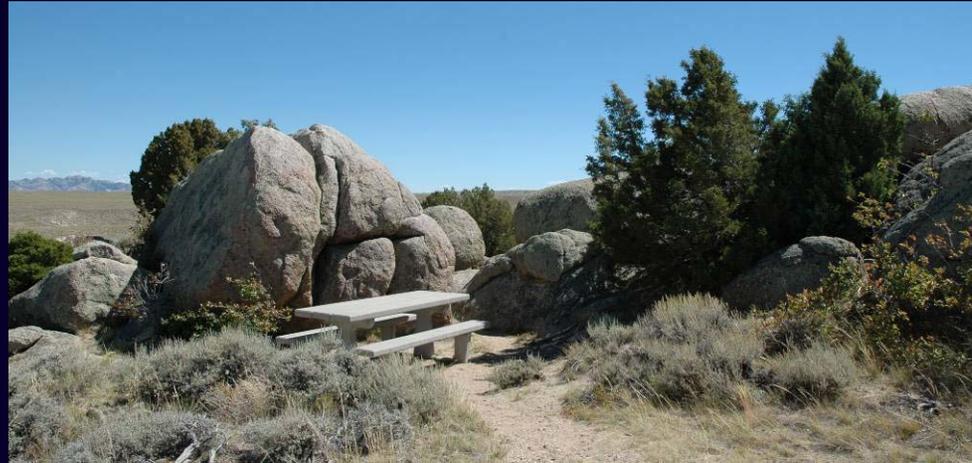
Choose appropriate colors



Recreation Sites



Screen with
vegetation &
landforms



Good color?

Recreation Sites



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Recreation Sites



UNIT 9 – Types of Projects

Recreation Sites



UNIT 9 – Types of Projects

Recreation Sites



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Vegetation Treatments

Avoid hard edges and unnatural patterns



Vegetation Treatments



Timber harvest blocks create natural-appearing openings

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Vegetation Treatments

Sagebrush treatment near the Continental Divide Trail



Fire Rehabilitation Projects



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EXERCISE