

# Types of Projects



# Major Categories of Projects

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- 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

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## 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

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## 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

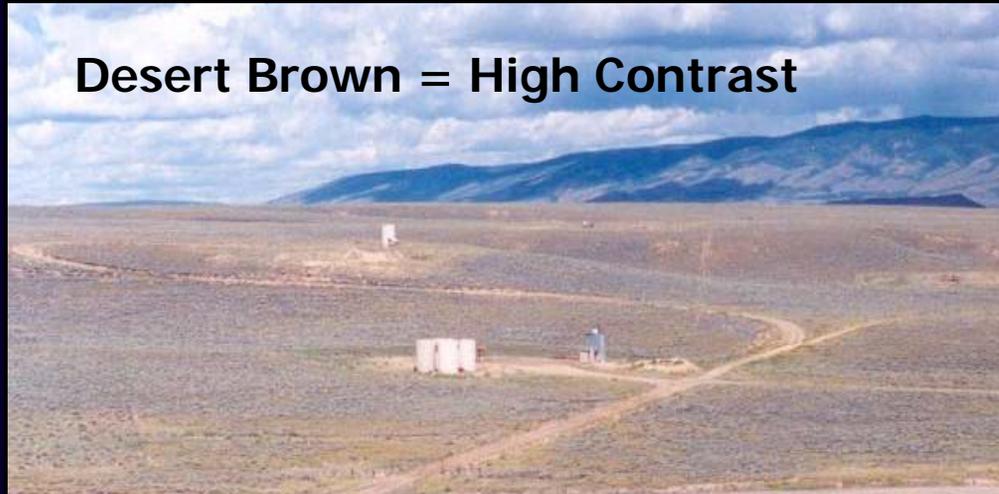


**Buried Well Head**

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# Oil & Gas Developments

Repeat  
Landscape  
Color



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

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## 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

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## 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

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## 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

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## 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

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## 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

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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