

1700 Broadway  
Suite 650  
Denver, CO 80290  
Tel: 303.398.0302



**Great Western**  
OIL & GAS COMPANY

503 Main Street  
Windsor, CO 80550  
Tel: 970.686.8831

May 13, 2011

TO: Rick Allison, Oil and Gas Location Assessment Specialist, COGCC

RE: Location Assessment – Manenti 20-54 and Tank Battery Location  
Document No. 400162841

In response to your request, following is a general narrative of GWOG's best management practices (BMPs) in regards to facility construction and maintenance.

**Drainage and Erosion Control Plan**

GWOG adheres to a Storm Water Management Plan (SWMP) along with COGCC rule 1002 f. (2) A. thru F. GWOG's SWMP for the Manenti wells and tank battery facility may include the following practices:

WELL SITE CONSTRUCTION	Well sites will be fenced with silt fencing on down gradient sides. Site will be reclaimed as soon as possible after well completion. Silt fence will be maintained until location has 70% regrowth.
DRILLING PIT DESIGN	A closed loop, pitless drilling system will be implemented. Drilling mud disposal will be off-site, land spread.
ACCESS ROAD CONSTRUCTION	The proposed access road location was determined with input from the surface owner in order to minimize impact to lower lying areas. The access road will have drainage control measures implementing the natural topography and incorporating roadbed culverts and ditches as required. Erosion control measures include the application of road base along the entire access road and installation of a vehicle tracking pad at the public right-of-way towards the construction site.
PIPELINES and FLOWLINES	Pipelines and flowlines will be wheel packed to avoid subsidence and will be re-vegetated. Erosion controls such as water bards, hay bales, and/or straw waddle will be employed as necessary.
TANK BATTERY CONSTRUCTION	Battery/facility construction BMPs will include placing facility on a level site. Silt fencing, earthen dikes or swales may be used if required to direct stormwater flows during construction. Final facility pad will be road based and graded to direct drainage to appropriate historical drainage patterns.
EROSION / SEDIMENT CONTROL	Interceptor swales, diversion dikes, and silt fencing may be used to ensure flows are properly slowed.

Regards,

Lisa Pfizenmaier  
Permit Technician