

Randy Moore

Private Lands Consultant/Wildlife Biologist/Erosion Specialist

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N-Tex Sand & Gravel - Klose Property

Sand & Gravel Mine

Legend

-  N-Tex Sand & Gravel - Klose Property
-  Texas Industries Inc

200 acres of
Mine
Reclamation



Reclamation Goals: Safely restore land that has been mined to a natural or economically usable state.

Objectives:

- Safely flatten slopes
- Provide Drainage
- Prevent Erosion and promote clean water
- Establish Perennial Grasses for long term use.
- Promote Fisheries and Wildlife
- Both Landowner & Mining Company be pleased with the final product.



When the mining is finished... the Sand Pit Floor is very wet and ROUGH!



What makes Reclamation difficult???





To Safely get our slopes workable, experienced operators on Excavators and Dozers leveled the slope.



Reclamation of Sand and Gravel Mines in Fannin County (Southwest wall)



My part of
the project
Includes:

Client
Interaction,
Surveys,
Planning &
Oversight.



The Challenge: 20 feet of Soil that is steep, wet & turned upside down!!! (Northeast wall)



East Wall



Shaping,
leveling,
holes
filled,
grass
planted.

East & North Wall;
previous 2 slides!



From 20-30 ft. Bluffs to 6:1 slopes.



Final Leveling on the top of the slope. Berm is placed at the top to prevent water from entering into the pit (that would cause erosion).



33 ft. bluffs to a 8:1 slope.

Before



After



Large dozers make quick work of the steep slopes.



Loading and spreading topsoil.



6-8 inches of
Topsoil is
applied to
the leveled
surface.



Rome
Plowing ...
cuts to 14
inches in
depth.
Mixes
topsoil and
levels the
ground.



Soil
Sampling:
0-6 inches
12-24 inches





Fertilizer and Seed applied in Fall 2016



Planted to Crimson Clover in fall 2016



8 acre
Lake
Construction



Excavated and
soon to be
dredged.

Waterway construction & Grade Stabilization Structure to enter water safely into the creek.



Before

.....

After





Planted to
Crimson
Clover in the
Fall of 2016.

No Erosion...
even on 20
ft. deep
sand pit.



Tom Gaedtke- N-Tex
Sand & Gravel Owner

Terry Hopkins- N-Tex
General Mgr.

N-Tex Sand & Gravel – Klose Property

(L-R) Gary
Klose, Tom
Gaedtke,
Terry Hopkins
and Reed
Klose



Happy Faces!

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