

NOBLES GRADE 3D SEISMIC SURVEY PROPOSAL

Public Meeting

December 8, 2015

Big Cypress National Preserve

Alternatives

Alternative 1 (NO Action)

Provides an environmental baseline for comparison to other alternatives

Burnett Oil Company would not conduct a seismic survey of any type

Current activities and management would continue in the Preserve.

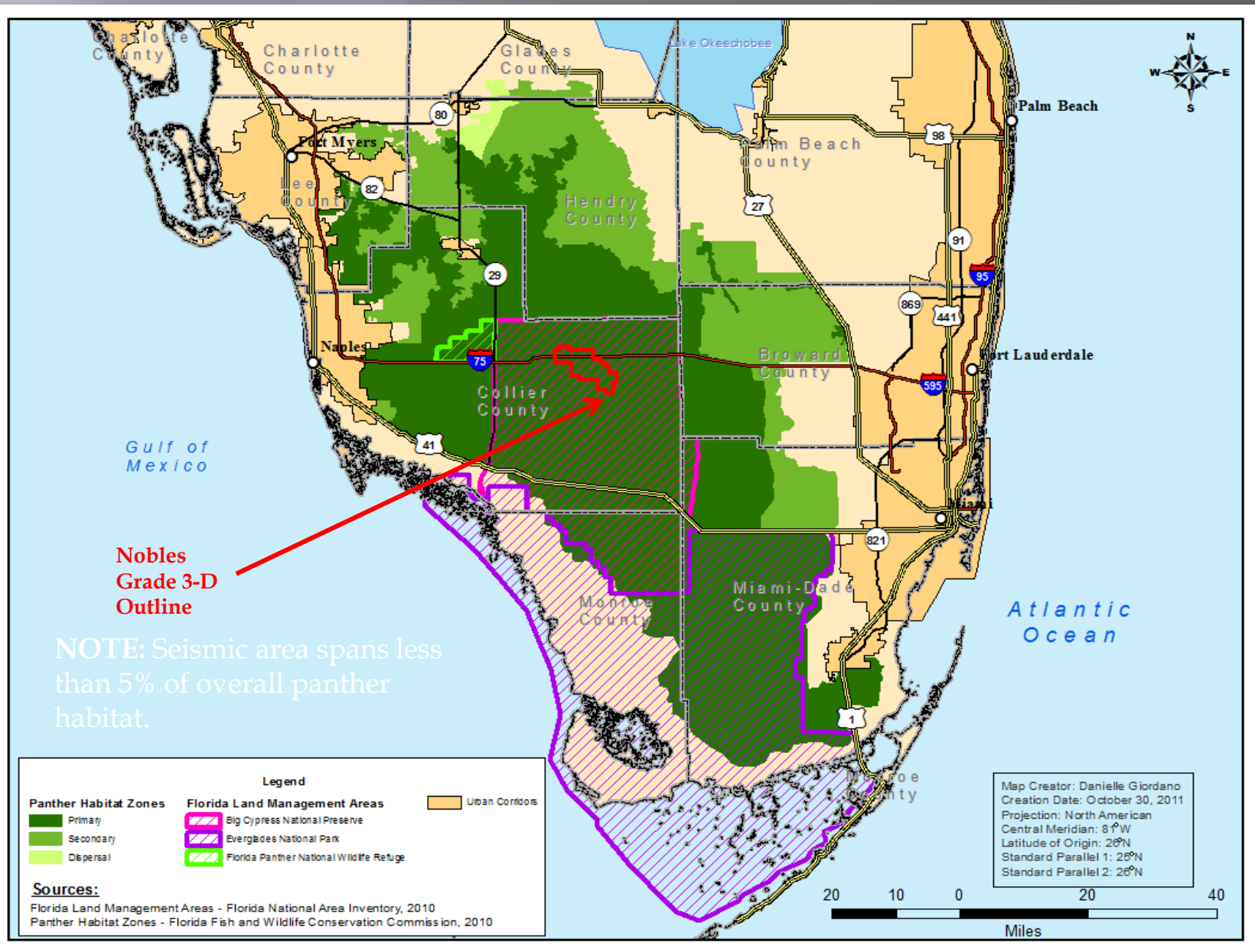
Alternative 2

Proposed Alternative

Seismic Survey Using Vibroseis
Buggies

Alternative 3

Seismic Survey Using Explosive
Charges



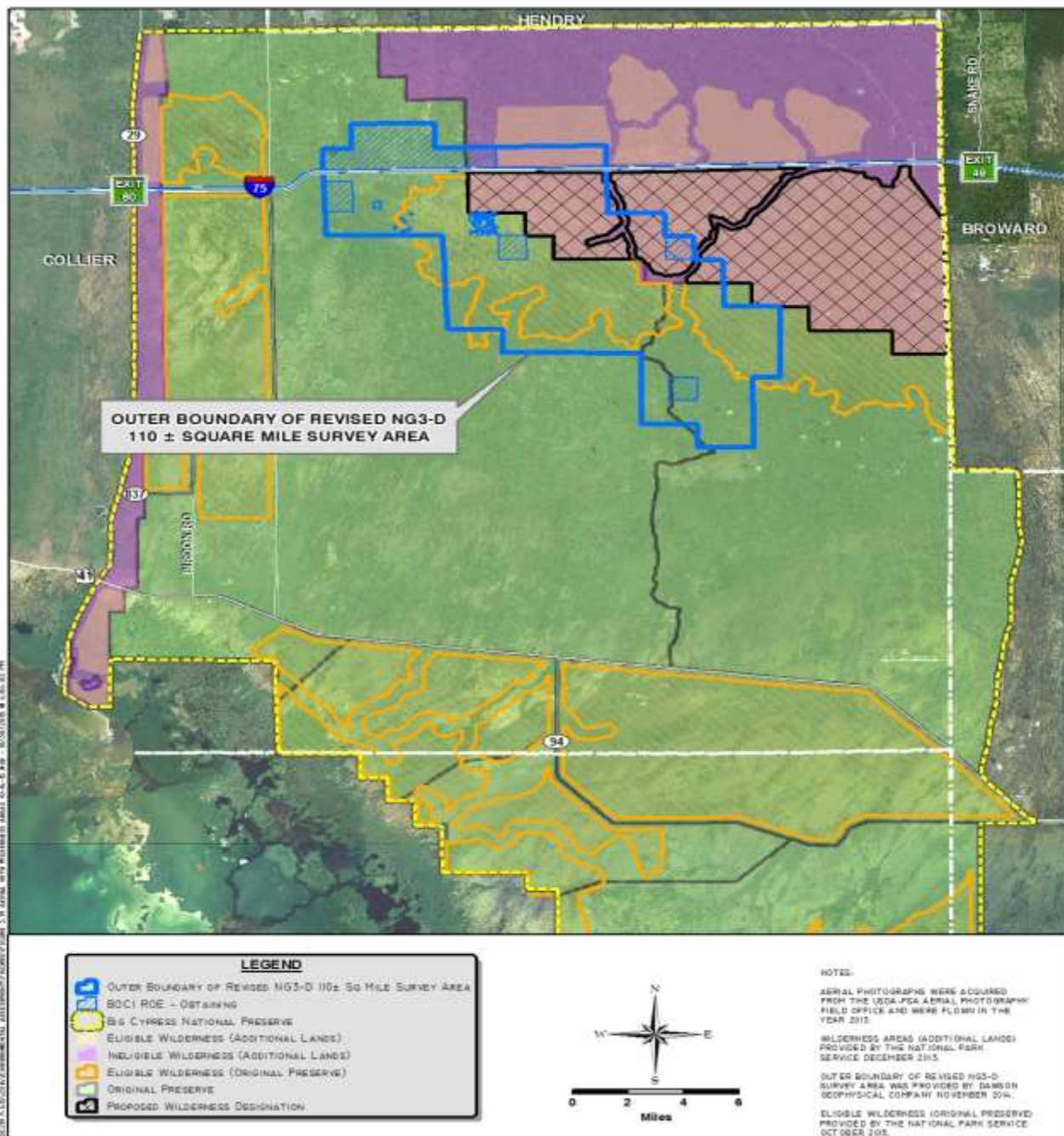


FIGURE 3.19 WILDERNESS AREAS IN BIG CYPRESS NATIONAL PRESERVE

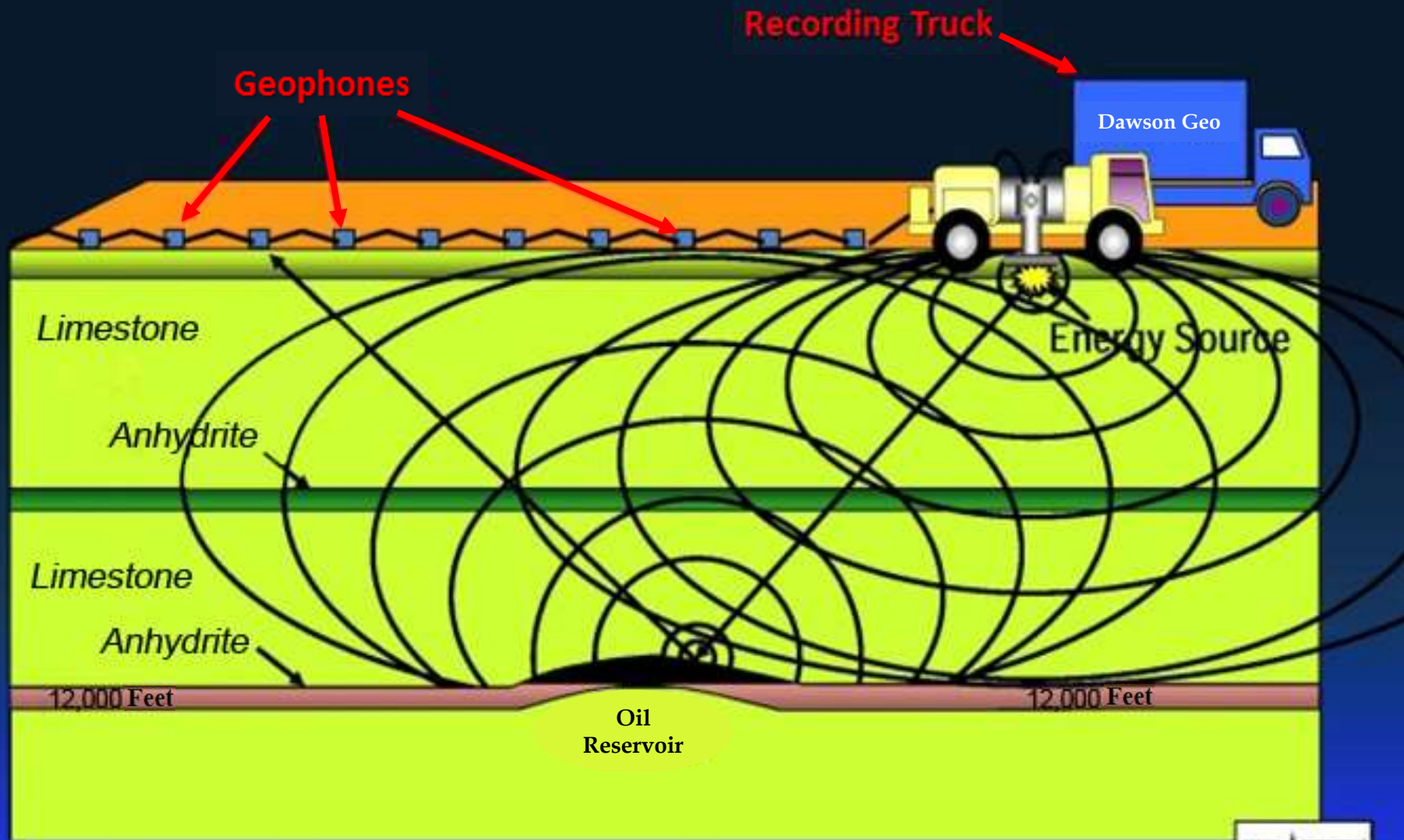
Alternative 2

Vibroseis Buggies



Vibroiseis Buggy Hydraulic Plate





Vibroiseis Demonstration



Vibroiseis Demonstration - December 6, 2013.wmv

Alternative 3

Survey Using Explosives

Shot Hole Drilling Equipment





Shot Hole Drilling Muskeg



Chick-a-sue Shot Hole Drill



Four -Trax Shot Hole Drill



Mitigation and Monitoring

- ▣ Work would be conducted during the dry season
- ▣ Vibroseis buggies equipped with flotation tires (terra tires)
- ▣ Routes selected for equipment movement must be approved by the NPS
- ▣ Work crews will observe all buffer zones established to protect sensitive resources
- ▣ Biologist and Archaeologist will accompany source buggies to protect resources
- ▣ Recording equipment distribution will utilize helicopter air support to the greatest extent possible to minimize vehicular movement
- ▣ NPS monitors will shadow reclamation crews as mitigation is conducted to surface impacts
- ▣ Work crews must complete BICY resource protection briefing prior to working in the Preserve

Alternatives in Review

- ▣ No Action (No seismic exploration)
- ▣ Vibroseis Seismic Survey (Proposed Action)
- ▣ Shot Hole Drilling Using Explosives as an energy source