ASCE Society Minutes
Date: 2 April 2014
Location: EN 1045

Activity – Professional Society Meeting

Attendance –
Students: __22__
Faculty: ___
Faculty Advisor: ___1___
Practitioner Advisor(s): ___
Other: ___

Report Prepared by – __________ Ellen Studebaker ____________

Officer Announcements –

Business –

Guest Speaker – Chris Fare

Topic – Antelope mine-Cloud Peak Energy
UW grad-reclamation
Tons of opportunities in coal industry
Everything revolves around safety
Safety share: turn on headlights
Powder River Basin- 40% nation’s coal
120 mi EW and 200 mi NS
80 ft coal seam along Bighorn Mtn.
3 mines: Spring Creek, Antelope, Cordero Rojo
low sulfur coal is the way to go
believe in sustainability, good in communities
Antelope: 22,000 acres. 10,000 disturbed, 4,041 reclaimed
Post mine topography PMT-topography after use, what it will be like forever
3 phases bond release
2-watersheds, plated seeds
3-plants, system function, can’t apply until 10 years of reclamation, diversity
index, shrubs
$450/acre to reclaim, 20% area shrubbed, 1 shrub/cubic meter
Cheat grass very invasive, no nutritional value,
Why worry about Prairie dog? Keystone species
Mtn. plover—threatened species lives in dog holes

1920-$1.0-$2.00/ton

2012

52 million ton air permits

617 million tons coal reserves

4 pits Antelope mine, 2 seams

569 people

10 years to permit

Dragline most efficient machine-less people- takes 2 people, 15 people total

Material above coal: prime material

Dragline sits on pad: pad level, flat

300 ft reach

20-100 ft within edge of pad

New boom 18 months- 2 years

Mining process always ongoing, 24/7, 365

Scale—load train (customers responsibility)-scale

Coal helps the economy lots- $75 mil taxes, $100 mil. Services

Antelope mine team with Douglass-giving back to the community

Cheatgrass- oct. sleep Feb. grow, June die, catch fire

Tistleator-patoned prect

Self insulates,

Seed heavy native grasses at the right time

Good vides gamers-god dragline operator

Will be at oct. career fair