Western Oil Shale Deposits

Location of the Green River Formation Oil Shale and Its Main Basins

SOURCE: Adapted from Smith, 1980.
RAND MG414-2.1
Location of OSEC Lease
White River Oil Shale Mine
White River Mine Site
Cross-Section Sketch of the White River Mine
Room and Pillar Mining Concept

In room and pillar mining operations, tunnels are driven into the ore vein and 50-foot wide rooms are formed as the shale is removed. About 40 percent of the shale rock will remain in place as 50 by 100 foot pillars which support the mine ceiling.
White River Mine (photo taken 1980’s)
OSEC’s 3-Phase R,D&D Program

Phase 1 (11 months):
   Ship 300 tons of stockpile shale to Calgary for pilot testing

Phase 2 (14 months):
   Permit for onsite activities
   Relocate 4 TPH ATP pilot plant to Utah
   Operate for 10 months
   Reopen the mine

Phase 3 (48 months):
   Permit, engineer and construct 250 TPH demonstration plant
   All shale from re-opened mine
   Onsite upgrading of shale oil
   Decision to proceed to commercial development
The Alberta Taciuk Process (ATP)
Status of OSEC’s RD&D Program

• Lease signed mid-June, 2007
• Phase 1 - 300 tons of crushed shale were shipped to Calgary for pilot plant tests. Three tests were completed in September 2007.
• Samples of product shale oil and spent shale have been sent to labs for analysis.
• Design work is being completed and permitting has been initiated for Phase 2.
Phase One
Processing 300 tons of White River Oil Shale
Conveyor feeding crushed oil shale into ATP retort. 4 tons per hour ATP Processor
Shale oil from ATP Retort
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