

TABLE OF CONTENTS

PLAN OF OPERATIONS

E.G.L. Resources, Inc.

Executive Summary	i
(1) Names, addresses and telephone numbers of those responsible for operations to be conducted under the approved plan to whom notices and orders are to be delivered	8
(2) Names and addresses of surface and mineral owners of record, if other than the United States	9
(3) Detailed Tract and Project Description and Maps	3
(3)a. Geologic/Hydrologic conditions within the lease tract	3
(3)b. Estimate of quantity/quality of all mineral resources along with proposed cutoff grades	6
(3)c. Location and Design of the proposed roads, well pads, ponds, powerlines, pits, monitoring wells, storage tanks, surface structures/facilities, stack parameters and emission rates	7
(3)d. Access Required for electrical power, natural gas, water and communications	7
(3)e. Equipment list, development sequence, estimated production rate, and estimated resource recovery factors	7
(3)f. Number of employees during construction/operations, times/dates of construction/operations, including the amount/type of traffic required for construction/operations	12
(3)g. Methods for containment/disposal of trash/waste material produced.....	14
(3)h. Locations of existing/abandoned mines and oil and gas wells.....	14
(3)i. Typical oil shale structure and overburden cross section.....	15
(3)j. Identification/Inventory of Cultural/Paleontology resources, and Threatened / Endangered (T/E) species along with proposed mitigation	15
(4) Drilling Plan Details	17
(4)a. Estimate Tops of Important Geologic Markers	17
(4)b. Estimated depths at which the top/bottom of anticipated water, oil shale, oil, gas, nahcolite, or other mineral-bearing formations are expected to be encountered	17
(4)c. Description of formations to be developed/heated along with associated temperatures of heating technology	18
(4)d. Description of proposed circulating medium or mediums to be used in heating oil shale formations	20
(4)e. Type/Characteristics of the proposed circulation medium to be employed in drilling, including types of mud and weighting material to be maintained	20
(4)f. Detailed description of fracturing methods, and types/amounts of propellants used	20
(4)g. Expected bottom hole pressures and specifications for pressure control equipment	21

(4)h. Identification of wells used in disposal, injection, and/or production along with proposed casing specifications along with proposed well life.....	21
(4)i. The amount/type of cement used in setting each casing string.....	21
(5) Environmental Aspects.....	22
(5)a Water Rights, an estimate of the quantity of water to be used, types of products and by-products produced, storage/disposal of products produced from the process, and pollutants that may enter and receiving waters surface or ground.....	22
(5)b. Spill Prevention Control and Countermeasures	23
(5)c. Prevention/Remediation Plan for groundwater contamination	23
(5)d. A design for the necessary impoundment, treatment or control of all runoff water and drainage from disturbed areas to reduce soil erosion and sedimentation and to prevent the pollution of receiving waters.....	25
(5)e. A detailed description of measures to be taken to prevent or control fire, and the best management practices (BMPs) utilized to prevent soil erosion, subsidence, pollution of surface and ground water, pollution of air, damage to fish or wildlife or other natural resources and hazards to public health and safety	25
(5)f. A detailed description of monitoring the development process, surface water, groundwater, air emissions, air quality, and proposed noise abatement procedures / equipment.....	27
(6) Reclamation Plan and Schedule.....	29
(6)a. A reclamation schedule and the measures to be taken for surface reclamation of the R,D/D tract that will ensure compliance with the established requirements.	29
(7) Abandonment Procedures and Methods.....	32
(7)a. The method and timing of abandonment, including proposed well abandonment procedures, and removal of surface structures on R, D/D tract	32

Figures

Figure 3-1 Location of proposed oil shale test site and the nearest geohydrologic test wells	4
Figure 3-2 Schematic diagram of the flow system in the Piceance Creek area	4
Figure 3-3 Plot of flow rate and Specific Conductance of Black Sulphur Creek	5
Figure 3-4 EGL Oil Shale Process – Block Flow Diagram	9

Tables

Table 3-1: Statistics for oil shale richness based on Sinclair Oil and Gas Corehole 1	6
Table 3-2 EGL Oil Shale Process – Block Flow Diagram: Process Flows	8
Table 3-3 Flue Gas Composition	10
Table 3-4 Oil and Gas Production Schedule	12

Appendices

Appendix A – Geologic Information
Appendix B - Surface Equipment List / Layout
Appendix C –Tract and ROW Maps
Appendix D – Technology Description and Diagrams
Appendix E – Heating Fluid Description