SCOPE OF WORK

Weinmeister Project Oklahoma County, OK OERB Project #1039

1. GENERAL

1.1 Location: The project is located near the town of Arcadia, Oklahoma as indicated on Figure 1.

1.2 Description of Existing Site Conditions: The project is associated with historical oil and gas exploration and production activities and consists of abandoned flowlines, concrete, anchors, debris, pits, denuded areas and areas to grade.

1.3 Boundaries

1.3.1 Project Boundary: The project is confined to Section 14-T14N-R1W, Oklahoma County, Oklahoma as indicated on Figure 2. The Contractor shall not cross the boundaries of this area except when entering or leaving the site.

1.3.2 Site Boundary: The Site Boundaries are discrete areas within the Project Boundary. The Site Boundaries are defined by the outline of the areas depicted on Figures 3 through 11. Certain tasks detailed below specify the Site Boundary as the perimeter of the work area for the task. In such cases the Contractor shall be responsible only for activities included in the task within the area defined by the Site Boundary.

1.4 Project Objectives

1.4.1 The objective of the project is to remove and dispose of the flowlines, concrete, anchors and debris, close the designated pits, apply amendments to the denuded areas, grade the designated areas, construct two pond structures and a diversion terrace and plant the areas disturbed during the course of work.

1.4.2 The Contractor shall take all appropriate precautions to minimize incidental disturbance to crops, pasture, and other areas outside the immediate work area(s), and may be held liable for any such damages deemed unnecessary or avoidable by the Consultant.

1.4.3 The project is located on private land. The Contractor, Consultant, and Landowner shall discuss all aspects of the Work at the pre-start meeting (refer to Section 19.2). The Contractor shall strive at all times to abide by the preferences of the Landowner as related to completion of the Work. In any instance that the Contractor believes that the preferences of the Landowner are in conflict with this Scope of Work or other contract documents, the Contractor shall immediately cease activities related to the area of apparent conflict and notify the Consultant.

2. IDENTIFICATION AND NOTIFICATION FOR ACTIVE UTILITIES

2.1 The Contractor shall be responsible for identification of all active subsurface utilities and/or pipelines by notification of appropriate line locator services and all other utility or pipeline operators in the site vicinity no less than 2 working days prior to the pre-start meeting (refer to Section 19.2) and prior to the initiation of any subsurface disturbance on the site. Notification shall include, but is not limited to, CALL-OKIE, 1-800-522-6543. Additionally, the Contractor shall take appropriate action to identify and notify all other utility or pipeline operators in the site vicinity that are not subscribers to the CALL-OKIE service.

2.2 The Contractor shall be responsible for any and all damage to active subsurface utilities and pipelines and any impact to soil, ground water or surface water as the result of the damage. In the event of damage to active utilities or pipelines, the Contractor shall take all appropriate precautions and perform measures to contain any spills and minimize impact to surrounding media. After taking steps to contain any spills and minimize impact, the Contractor shall immediately notify the Consultant

of the damage. The Contractor will be required to comply with all applicable laws, rules, regulations, and clean-up standards for any impact caused by damage to active utilities or pipelines.

2.3 The Contractor shall identify any aboveground utilities and/or pipelines in the work area(s), and shall exercise appropriate precautions to avoid damage to such lines. Unless specifically informed otherwise by the utility provider, Contractors shall assume that any aboveground electrical lines in the work area(s) are energized, and shall observe all applicable safety precautions when working in the vicinity of the lines.

3. FLOWLINE REMOVAL AND DISPOSAL

3.1 General: The Contractor shall remove all exposed abandoned flowlines within the Site Boundaries and any abandoned buried flowlines that interfere with the work. Sections of exposed flowline shall be removed back into the buried section to the point of burial depth of 18 inches, or at least 25 feet back from the point of exposure, whichever is less. Buried flowline shall be removed as necessary to complete this Scope of Work.

3.2 Residual Material in Lines: If the Contractor determines that there may be significant (>1 barrel) quantities of residual product remaining in the flowlines, the Contractor shall immediately cease removal activities, take appropriate steps to prevent spillage of the material, and notify the Consultant.

3.3 Flowline Capping: All flowlines that are cut and left in place shall be capped with either a welded or threaded cap or plug. All capped flowline ends shall be left exposed until inspected by the Consultant.

3.4 Grading: All areas disturbed by flowline removal shall be graded with soil from the immediate surrounding area to blend with the existing terrain.

3.5 Salvage: All salvageable removed flowline material becomes the property of the Contractor. All such material must be removed from the project site prior to the Contractor's application for final payment.

3.6 Disposal: Non-salvageable flowline material shall be disposed of by transportation to a permitted landfill or a reclaimer/recycler. The Contractor shall notify the Consultant <u>in writing</u> of the proposed landfill or reclaimer/recycler prior to removal of any material from the site, and shall provide manifests for all waste prior to application for final payment. In the event that Natural Occurring Radioactive Material (NORM) is found in some flowlines, these materials shall be buried on-site. The burial location shall be in close proximity to the original location of the flowlines. Burial depth shall be adequate to provide a minimum of 3 feet of compacted cover over all sections of the flowlines. The Consultant shall be notified within 24 hours prior to burial of any NORM flowlines.

4. CONCRETE REMOVAL AND DISPOSAL

4.1 General: All concrete slabs, engine pads, foundations, rig corners, or other concrete structures contained within the Site Boundaries shall be disposed of by burial on-site. The Contractor shall be responsible for determination of actual dimensions of all concrete structures, and will be required to remove all structures regardless of size and with no change in the contract sum due to concrete volume.

4.2 Disposal by Burial On-Site: Unless specifically noted otherwise, burial location shall be in close proximity to the original location of the structure. Burial depth shall be adequate to provide a minimum of 3 feet of compacted cover over all sections of the buried structure.

4.3 Grading: All areas disturbed by concrete removal shall be graded with soil from the immediate surrounding area to blend with the existing terrain.

5. ANCHOR REMOVAL AND DISPOSAL

5.1 General: The Contractor shall be responsible for the removal and disposal of all dead-man, expanding, helical, or any other type of guy-wire anchors within the Site Boundaries. Anchors shall be removed to a depth of at least 18 inches below the final grade.

5.2 Disposal: Removed anchor material shall be disposed of by transportation to a permitted landfill or a reclaimer/recycler. The Contractor shall notify the Consultant <u>in writing</u> of the proposed landfill or reclaimer/recycler prior to removal of any material from the site, and shall provide manifests for all waste prior to application for final payment.

5.3 Grading: All areas disturbed by anchor removal shall be graded with soil from the immediate surrounding area to blend with the existing terrain.

6. DEBRIS REMOVAL AND DISPOSAL

6.1 General: The Contractor shall be responsible for the removal and disposal of all miscellaneous debris and/or abandoned materials located within the Site Boundaries. Trees, stumps, and brush shall be removed only as necessary to meet the requirements of this Scope of Work. Trees and stumps shall be removed to a depth of 12 inches below the final grade.

6.2 Off-Site Disposal: Materials removed from the site shall be legally disposed of in a permitted landfill or transferred to a reclaimer/recycler. The Contractor shall notify the Consultant <u>in writing</u> of the proposed landfill or reclaimer/recycler prior to removal of any material from the site, and shall provide manifests for all waste prior to application for final payment.

6.3 Disposal by Burning: Trees, logs, stumps, brush, or household trash that is included in the debris identified to be removed may be disposed of by burning on-site, subject to the following constraints:

6.3.1 Oversight: Burning shall be accomplished under the constant care of competent watchmen at such times and in such manner that the surrounding vegetation and other adjacent property shall not be jeopardized. The Contractor shall be liable for any damage deemed unnecessary or avoidable by the Consultant.

6.3.2 Laws, Ordinances, Permits: Burning shall be accomplished in accordance with all applicable laws and ordinances. The Contractor shall be responsible for the acquisition and cost of any required permits.

6.3.3 Ash Disposal: All ash and/or other residue remaining after burning shall be disposed of by burial. Burial depth shall be adequate to provide a minimum of 3 feet of compacted cover over all sections of the buried material.

6.4 Grading: All areas disturbed by debris removal shall be graded with soil from the immediate surrounding area to blend with the existing terrain.

7. PIT CLOSURE

7.1 General: The Contractor shall push the pit dikes into the pits to fill the depressions of the pit areas depicted on the attached Figures with the exception of Pit-1 and 2 which shall not be disturbed. The pit areas shall be graded to blend with the existing terrain.

8. SOIL AMENDMENTS

8.1 General: Amendments shall be applied to the denuded area depicted on Figure 4. Amendments shall consist of gypsum <u>AND</u> organic material. Organic material shall include manure <u>AND</u> at least one other type of organic matter.

8.2 Preparation: The area shall be graded and terraced along contour lines to mitigate overland flow during the restoration process.

8.3 Materials

- **8.3.1** Gypsum shall be of agricultural grade and shall be either crushed or in agricultural fines.
- **8.3.2** Manure may be cattle, poultry, or equine.

8.3.3 Other organic matter may include, but is not limited to, straw, hay, tree and/or leaf mulch, or peanut hulls. Straw shall be the mature stems of barley, oats, or wheat from which the grain has been harvested. Hay shall consist of Bermuda grass, mature weeping lovegrass, Caucasian

bluestem, K.R. bluestem or pure stands of the other bluestem hays. The hay shall be free from appreciable quantities of annual grass, short grass or immature tall grass. The organic material shall contain no seeds that are classified as "Prohibited Noxious" and shall be as free of "Restricted Noxious" as is legally allowed by the Oklahoma Department of Agriculture. Use of organic materials other than those listed must be approved by the Consultant **in writing** prior to application.

8.4 Application: Amendments shall be applied in the following quantities:

Gypsum	
Straw / hay <u>or</u>	
Tree / Leaf mulch or peanut hulls	24 tons
Manure	

The amendments shall be applied uniformly to the area in the specified quantities, and shall be disked into the soil in such a manner as to distribute the amendments evenly through the top 6 inches of soil.

8.5 Material Verification: The Consultant reserves the right to verify quantities and composition of amendment materials by inspection at the time of delivery to the site. The Contractor shall notify the Consultant at least 48 hours prior to the delivery of materials. Additionally, the Contractor must furnish delivery tickets indicating quantity and composition of materials actually delivered to the site prior to application for final payment.

9. POND CONSTRUCTION

9.1 General: The Contractor shall build an earthen embankment pond (Structure # 1) as depicted on Figure 10. Specifications for the proposed pond construction are included as Figure 12 of this Scope of Work. The Consultant will perform the final pond inspection.

9.2 Dam: The general location of the dam is provided on Figure 10. The actual location shall be dictated by flags at the site. Cross-sectional dimensions of the dam are provided on Figure 12.

9.3 Foundation Area: The foundation area shall be cleared of trees, logs, stumps, roots, brush, boulders, sod and other debris. The foundation area shall be thoroughly scarified before placement of fill material.

9.4 Core Trench: The core trench shall be excavated according to the specifications depicted on Figure 12 and as staked in the field.

9.5 Material: Topsoil located within the area of the pond construction shall be excavated prior to the pond construction and stockpiled for final grading. Material for the construction of the pond dam shall be obtained from the area up-gradient from the proposed dam locations. Side slopes within the water line shall be no less than 4:1. It is estimated that approximately **2,245** cubic yards of material will be required for the construction of the dam, including 10% for shrinkage as depicted on Figure 12. Fill material shall be placed and spread beginning at the lowest point of the foundation and then bringing it up in continuous horizontal layers. The Contractor shall compact each layer.

9.6 Drawdown Pipes: A drawdown pipe with canopy inlets and equipped with anti-seep collars shall be placed within the dam as shown on Figure 12.

9.7 Earthen Spillway: An earthen spillway shall be constructed in the general area depicted on Figure 10. The actual location shall be dictated by flags at the site. Dimensions of the spillway are provided on Figure 12. The spillway shall be approximately 15 feet wide with a relative elevation of 98.5. Side slopes of the spillway shall have a slope of 4:1.

9.8 Final Grading and Topsoil Application: The pond banks outside the dam area shall be graded to blend with the surrounding terrain. Topsoil excavated prior to the construction process shall be spread uniformly to a minimum depth of 4 inches over the pond banks, the up-gradient slope of the dam, the top of the dam, the down-gradient slope of the dam and the spillway.

9.9 Mulching: Mulching material such as hay or straw shall be applied to the pond dam outside the water line. The material shall be applied at the rate of 2 tons per acre. The material shall be spread uniformly and tilled into the top 3 inches of soil.

10. POND CONSTRUCTION

10.1 General: The Contractor shall build an earthen embankment pond (Structure # 2) as depicted on Figure 10. Specifications for the proposed pond construction are included as Figure 13 of this Scope of Work. The Consultant will perform the final pond inspection.

10.2 Dam: The general location of the dam is provided on Figure 10. The actual location shall be dictated by flags at the site. Cross-sectional dimensions of the dam are provided on Figure 13.

10.3 Foundation Area: The foundation area shall be cleared of trees, logs, stumps, roots, brush, boulders, sod and other debris. The foundation area shall be thoroughly scarified before placement of fill material.

10.4 Core Trench: The core trench shall be excavated according to the specifications depicted on Figure 13 and as staked in the field.

10.5 Material: Topsoil located within the area of the pond construction shall be excavated prior to the pond construction and stockpiled for final grading. Material for the construction of the pond dam shall be obtained from the area up-gradient from the proposed dam locations. Side slopes within the water line shall be no less than 4:1. It is estimated that approximately **11,982** cubic yards of material will be required for the construction of the dam, including 10% for shrinkage as depicted on Figure 13. Fill material shall be placed and spread beginning at the lowest point of the foundation and then bringing it up in continuous horizontal layers. The Contractor shall compact each layer.

10.6 Drawdown Pipes: A drawdown pipe with canopy inlets and equipped with anti-seep collars shall be placed within the dam as shown on Figure 13.

10.7 Earthen Spillway: An earthen spillway shall be constructed in the general area depicted on Figure 10. The actual location shall be dictated by flags at the site. Dimensions of the spillway are provided on Figure 13. The spillway shall be approximately 20 feet wide with a relative elevation of 98.5. Side slopes of the spillway shall have a slope of 4:1.

10.8 Final Grading and Topsoil Application: The pond banks outside the dam area shall be graded to blend with the surrounding terrain. Topsoil excavated prior to the construction process shall be spread uniformly to a minimum depth of 4 inches over the pond banks, the up-gradient slope of the dam, the top of the dam, the down-gradient slope of the dam and the spillway.

10.9 Mulching: Mulching material such as hay or straw shall be applied to the pond dam outside the water line. The material shall be applied at the rate of 2 tons per acre. The material shall be spread uniformly and tilled into the top 3 inches of soil.

11. DIVERSION TERRACE

11.1 Diversion Terrace: A diversion terrace shall be constructed as depicted on Figure 4. It is estimated that approximately **1,050** cubic yards of material will be required for the construction of the terrace. Specifications for the proposed diversion terrace are included as Figure 13 of this Scope of Work.

12. GRADING

12.1 General: The banks of the eroded areas depicted on the attached Figures shall be graded to a maximum slope of 4:1 and blended with the existing terrain. Soil mounds depicted on the attached Figures shall be leveled and graded to blend with the existing terrain. Depressions depicted on the attached Figures shall be filled and compacted with soil from the immediate surrounding area and graded to blend with the existing terrain.

13. TOP SOIL REMOVAL/REPLACEMENT

13.1 General: Topsoil shall be excavated in any areas being disturbed and stockpiled **separately** from other material generated during excavations and/or grading. The stockpiled top soil shall be used for final grading and to top dress any affected areas.

14. ROCK REMOVAL/REPLACEMENT

14.1 General: Any rock removed during burial activities shall be **segregated** during excavation. When filling the excavated area, the segregated rock shall be the first material placed into the excavation. In the event that there is not sufficient subsoil/topsoil available to cover the rock, the excess rock shall be placed in an area within the project boundary as determined by the Landowner and Consultant. Under **no** circumstance shall excess rock be dispersed in areas outside the limits of the excavations.

15. PLANTING

15.1 General: The areas affected by all activities outlined in this Scope of Work shall be graded and seeded.

15.2 Preparation: Preparation of areas shall include filling and reshaping eroded areas and refinishing slopes to the established typical grade. The soil shall be tilled or disked on the contour to a depth of 4 inches.

15.3 Materials and Rate: Due to the uncertainty of the time of year planting will occur, seed composition and rates will be determined by the time of year as outlined below:

Time	Seed Composition	Rate
August - February	50% Winter Wheat and 50% Winter Rye	60 pounds per acre
March - June	Bermuda grass	10 pounds per acre
July	Winter Wheat and Rye and Bermuda	As above

The seed shall be furnished in sealed bags and shall have been officially sampled and tested by the Oklahoma State Board of Agriculture.

15.4 Planting: The area(s) shall be planted with mechanical equipment designed and capable of planting the material uniformly and at the specified rate. Hand planting shall not be used except in areas that are too small or inaccessible to accommodate the specified equipment. Equipment shall not be operated on areas where rutting or slippage would mar the soil surface. After seeding the area shall be graded by dragging or other similar methods to cover the seed and smooth the surface. After planting there shall be no clods or clumps of soil greater than 2 inches in diameter.

15.5 Fertilizing: Fertilizer shall be applied at the rate of 100 pounds per acre. The fertilizer shall have the composition of 10% nitrogen, 20% phosphate, and 10% potassium (10-20-10) or 13% nitrogen, 13% phosphate, and 13% potassium (13-13-13). When satisfactory results can be obtained, disking for soil preparation and incorporation of fertilizer may be accomplished in one operation. The fertilizer shall be applied with a mechanical broadcast spreader capable of distributing the fertilizer evenly at the specified rate.

16. EQUIPMENT

16.1 The Contractor shall furnish all equipment necessary to perform the Work in satisfactory working condition and in sufficient quantity to perform the Work on schedule. All equipment shall be subject to inspection by the Consultant prior to use at the site.

17. SEQUENCING AND PHASING

17.1 Identification of subsurface utilities shall be performed prior to any subsurface disturbance on the site.

17.2 Sequencing and phasing of all other activities shall be at the discretion of the Contractor.

17.2.1 The Contractor shall be responsible for coordinating and sequencing of work by any subcontractors employed by the Contractor.

17.2.2 The Contractor shall be responsible to communicate with the Consultant as necessary to coordinate work at the site by other contractors.

17.3 The Contractor shall be responsible for any damage to completed work caused by improper sequencing or by failure to take adequate precautions to protect completed work.

18. HEALTH AND SAFETY

18.1 The Contractor shall be responsible for compliance with all applicable health and safety regulations including, but not limited to, those covered under Occupational Safety and Health Administration (OSHA) during all site activities.

19. NOTIFICATION

19.1 The Contractor shall notify the Consultant <u>at least 3 working days</u> prior to commencing any work at the site. Call Jamie Dolph at 405-330-8688.

19.2 There will be a pre-start meeting at the site that includes the Consultant, Contractor and Landowner (or representative) **prior to commencement of any operations** at the site. The Consultant shall set the time and place of this meeting after determining the availability of all parties.

20. DOCUMENTATION

20.1 All required documentation as outlined in this Scope of Work shall be provided to the Consultant prior to application for final payment. Failure to provide documentation will result in delay of the final payment.

21. ATTACHMENTS

21.1 The following Figures are attached and are a part of this Scope of Work:

Figure 1..... Project Location Map

- Figure 2..... Project Boundary Map
- Figure 2.1.... Aerial Photograph
- Figure 2.2.... Aerial Photograph
- Figure 2.3..... Aerial Photograph
- Figure 2.4..... Aerial Photograph
- Figure 3..... Site Map Site 1
- Figure 4..... Site Map Site 2
- Figure 5..... Site Map Site 3
- Figure 6..... Site Map Site 4
- Figure 7..... Site Map Site 5
- Figure 8..... Site Map Site 6
- Figure 9..... Site Map Site 7
- Figure 10..... Site Map Site 8
- Figure 11..... Site Map Site 9
- Figure 12..... Pond Specifications
- Figure 13..... Pond Specifications

End of Scope of Work

































