

Dixie Osborne

GIS & AutoCAD Specialist / Engineering Technician

AREAS OF EXPERTISE

- AutoCAD
- ArcMap
- Design Layout
- Ownership Plats

EDUCATION

Drafting
Billings Vo-Tech (1979)

PROFESSIONAL HISTORY

2015 – Present. Senior Drafter
Spectrum Engineering and Environmental LLC,
Billings, MT

1984 – 2015. Senior Drafter
Spectrum Engineering Inc., Billings, MT

1980 – 1984. Drafter
IntraSearch Engineering, Inc., Billings, MT

1979 – 1980. Drafter
Altas Engineering, Billings, MT

BACKGROUND

Dixie has 36 years of mine reclamation drafting, AutoCAD and GIS expertise. She prepares ownership maps and all drawings associated with abandoned mine inventories, GIS databases, and construction bid documents. She calculates volumetrics, and develops cross-sections and post-mine layout of topography. She also has done road and railroad grade, and alignment layouts.

REPRESENTATIVE EXPERIENCE

Zortman/Landusky Mine Reclamation Project

- Technical specification drawings of mine closures, bale dikes, bat grates and erosion blankets.
- As built drawings and cross sections.
- Supplemental Environmental Impact Statement (SEIS) maps.
- Land Application Disposal layout designs.

Utah Abandoned Mine Land Projects

- Used GIS systems to prepare detailed project maps with inventoried mine features and access routes. Started with initial GPS data and completed final ArcMap project files to create linked dynamic maps.
- Plot all ownership from BLM/USFS master title plats and cross-check against plotted mineral survey plats.
- Plot all unpatented mining claims.
- Complete inventory drawings.
- Assist in completion of Microsoft Excel master files.

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REPRESENTATIVE EXPERIENCE (cont.)

Gilt Edge Water Treatment Project

- Prepare as-built drawings for the capture systems.

Golden Sunlight Mine SEIS Project

- Supplemental Environmental Impact Statement (SEIS) maps.
- Technical memo maps.

Kansas

- AutoCAD generation of detailed drawings of dams, diversions, sediment ponds, drivable fords, and grading plans for mine facilities areas (drawn to meet the requirements of state permitting agencies).

Wyoming

- Prepared drawings required for mine permit applications including mine plan maps, drill hole maps, coal seam structure and isopach maps, cross sections, land ownership work and property maps.
- Developed detailed drawings for AML projects.

TRAINING AND CONTINUING EDUCATION

- 48-hour training on AutoCAD.
- 16-hour technical training on how to optimize the unique requirements of AutoCAD using Autodesk Map.
- 32-hour on-site training of ArcView GIS software.
- Corporate Ethics Plan, Code of Business Conduct, Training
- Harassment Prevention Training