# Chris R. Root

303-605-1982 (office) 720-635-5982 (cell)

### 9/2000 to Present

## Duke Energy Field Services - Principal Engineer / Senior Project Manager

- ♦ Led Operating Excellence Team on Plant Reliability
- Project Management of Artesia Expansion Projects (Inlet Compression, Amine and Cryogenic Debottlenecking, DCS Installation, and Acid Gas Injection)
- ◆ Front End Engineering Development (FEED) Studies NGL Recovery, Sulfur Recovery, Waste Heat Recovery and Acid Gas Injection Projects various Plants
- ♦ Process Engineering on various projects expertise in Cryogenic NGL Recovery, Nitrogen Rejection Units (NRU), Gas Treating Units, Acid Gas Injection (AGI), and Sulfur Recovery Units (SRU)
- Cost Estimate Development and Consulting Support including Process, Estimates, and Project

#### 3/1999 to 9//2000

### Pearl Development Company - Manager of Engineering / Project Manager

- ♦ Supervised Approximately 20 Person Engineering Group with 4 Direct Reports
- Employee Appraisals, Approval of Timesheets and Expenses, Complete Day-to-Day Management
- Participant in Management Meetings, Provided Budgets and Strategic Planning for Engineering Group
- ♦ Project Manager and Engineer on 225 MMscfd Treating Facility
- Engineering Review on Projects, Cost Estimate Development, and Process Engineering
- Project Manager on Overthrust Sour Gas Treating and Acid Gas Injection FEED Study, Piceance Basin Processing Estimate, an other studies and estimates

#### 8/1981 to 3/1999

### Amoco Production Company (BP)

Project Manager – Anschutz/Painter (Overthrust) Group (8/1993 – 3/1999)

- ♦ Led Strategic Planning for Assets including Consolidation and Other Scenarios
- ♦ Led Process Optimization Effort Increased Recoveries and Plant Revenue \$7 MM per Year
- Provided Engineering Consulting and Review for Plants Inside and Outside Group
- ♦ Provided Consulting on Design and Assisted in Start-up of Hugoton NRU
- ◆ Provided Input to Capital and Operating Budget Planning Efforts
- ◆ Project Management of Several Projects Cryogenic Exchanger Replacement, NRU Debottlenecking, and Fuel Gas Blending

Deputy Commissioning Supervisor – North Sea Platform (10/1992-7/1993)

- ◆ Leadership of Platform Start-up Coordinating Operations, Construction, and Drilling Efforts Process Engineer - Worldwide Engineering Group (8/1985 - 10-1992)
- ♦ Lead Engineer on Various Projects, Start-ups, and Studies
- Group Supervision During Manager's Extended Absences
- ♦ Engineering Consulting Role and Process Engineering Various Projects

Engineer – Montbello District Office (8/1981 – 8/1985)

- Engineering Support for Spindle, Wattenberg, and Other Plants
- Developed and Executed Projects Product Treating, Waste Heat Recovery, and Others

### **Professional Activities**

- ♦ Member GPA Research Committee Subgroup #2
- Member Rocky Mountain Chapter GPA and National GPA
- Former President, Vice President, and Director Rocky Mountain Chapter GPA
- ♦ Various Technical Papers (GPA, Gas Conditioning Conference, and O&GJ)
- ♦ Professional Engineer (Colorado)

#### Education

BS and MS in Chemical Engineering – University of Oklahoma

BEFORE THE OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 13589 Exhibit No. 11
Submitted by:
DUKE ENERGY FIELD SERVICES. LP
Hearing Date: February 9, 2006