

## ENERGY AND PETROLEUM (E&P) PROJECT CAPSULES

### **1. Oil and Gas Wastewater Disposal Company - 14 Facilities in Texas and Louisiana**

Paragon completed Phase I Environmental Site Assessments (Phase I ESAs); Limited Environmental Compliance Assessments (LECAs); Limited Subsurface Assessments; and asset performance/condition evaluations for the purchaser of this business. Activities included review of regulatory compliance including stormwater, air, hazardous waste, used-oil, SARA Title III, spill containment, and health and safety. We also provided acquisition and post-closing support including regulatory compliance activities and coordination of testing and review of longevity of salt domes.

### **2. Wellhead Repair/Workover Company - 12 Facilities in Colorado, Texas and North Dakota**

Paragon completed Phase I ESAs and LECAs for due diligence for the purchaser of this business, for add-on acquisitions and for newly leased facilities. Activities included review of regulatory compliance including stormwater, air, hazardous waste, used-oil, SARA Title III and health and safety.

### **3. Oil and Gas Company Merger – 145 Facilities in Colorado**

Paragon performed file reviews of Federal and State online databases of three (3) oil and gas companies for a possible merger. The review included facility compliance with Federal and State regulations for stormwater, air, spill containment, health and safety and equipment testing. Status of inspections and notice of violations were reviewed for each facility as well as the history of spills at each location. Site reconnaissances were also completed at 57 of the tank batteries prior to the cancellation of the deal.

### **4. Crude Oil Well and Storage Tanks - Routt County, Colorado**

Paragon reviewed equipment information; performed air emission estimates; prepared and submitted air pollutant emission notices (APENs) and permit application; and coordinated with regulatory agency.

### **5. Spill Response for 2013 Flood-Impacts – Numerous Facilities, Weld County, Colorado**

Paragon responded to several spills at oil and gas facilities in Weld County that were reported following the September 2013 flood event. Spill response activities included coordination of vacuum trucks and excavation of impacted areas as well as confirmational soil and water sampling. Spill/release response forms and reports were completed and submitted to the

Colorado Oil and Gas Conservation Commission with follow-up communication with regulators to obtain No-Further-Action status for the spills.

#### **6. Wastewater Disposal Ponds - Wyoming, Colorado and Utah**

Paragon provided regulatory compliance support for existing and newly constructed E&P wastewater disposal pond facilities. In addition to permitting, design and construction quality assurance, activities included preparation and implementation of stormwater permits and Stormwater Pollution Prevention Plans (SWPPPs), assistance with obtaining and implementing air permits, review and coordination of hazardous and used-oil waste procedures, and assistance with SARA Title III reporting.

#### **7. Evaporative Ponds - Cisco, Utah**

Reviewed existing information; made site visit; prepared work plan for revision of Notice of Intent; performed preliminary air emission estimates; coordinated microbiological testing of produced water; held pre-construction meeting for construction of a new pond; performed construction quality-control monitoring for the new pond; coordinated geotechnical testing, liner testing and surveying associated with construction of the new pond; prepared Construction Documentation Report for the new pond; and coordinated with regulatory agencies.

#### **8. Evaporative Ponds - Carpenter, Wyoming**

Performed subsurface explorations at two different potential E&P wastewater disposal sites, installed groundwater monitoring wells, coordinated geotechnical testing of soil samples, coordinated surveying of site topography and well locations, prepared conceptual design of evaporative ponds and associated facilities, and completed state and county permitting.

#### **9. Evaporative Ponds – Baggs, Wyoming**

Reviewed existing information; made site visit; completed permitting; held pre-construction meetings for construction of two new E&P wastewater disposal ponds; performed construction quality-control monitoring for the new ponds; coordinated geotechnical testing, liner testing and surveying associated with construction of the new ponds; and coordinated with regulatory agencies.

#### **10. Evaporative Ponds - Gillette, Wyoming**

Reviewed existing information; revised cost estimates for financial assurance for closure and post-closure care associated with Phase I construction; obtained approval from regulatory agency of financial assurance costs for bonding purposes; held pre-construction meeting for Phase 1 construction; obtained and reviewed construction, materials testing and surveying cost estimates for phased construction; provided quality assurance monitoring; prepared Construction Documentation Reports; and coordinated with regulatory agencies.