

# Statement of Qualification



# PELICAN

"SHAPING THE FUTURE OF ENERGY"

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# Company Overview

## PELICAN ENERGY CONSULTANTS, LLC

Pelican is a privately held Consulting Engineering Firm located in Covington, Louisiana

Our organization has been providing the following core services to the energy industry since 2005:

- Multi-Discipline Engineering
- Design and Drafting
- Project Management
- Onsite Construction Coordination & Inspection Services
- Procurement and Inventory Management Services

***Pelican is an industry leader in the design of Carbon Capture facilities and has been performing engineering services for CO<sub>2</sub> projects since 2005 with individual experience since the late 90s.***

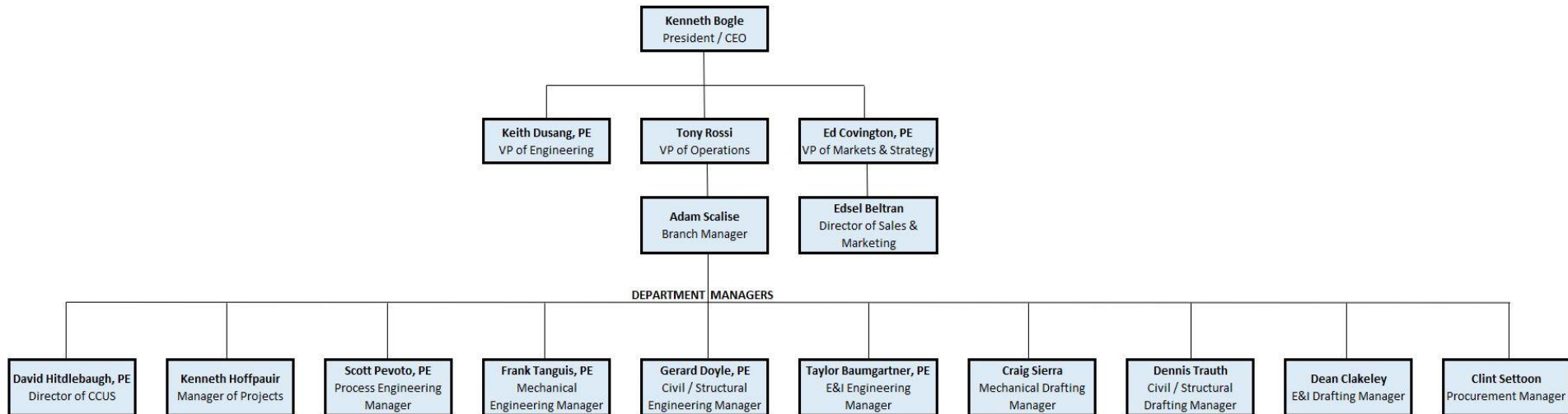
# Pelican Core Values:

- **Accountability:** We each faithfully carry our load and timely satisfy our commitments; we bravely help our team members to do the same. We do what we say we are going to do, when we agree to do it.
- **Fun:** We individually and collectively strive to make Pelican a safe, healthy and enjoyable place where team members want to come to work.
- **Responsible Stewardship:** We develop and prudently use the talent and resources accumulated at Pelican and provide a platform for sharing the fruits generated by that talent.
- **Service to all Stakeholders:** Team Members, Customers and Community: Team members will approach all Pelican constituents with an appropriate attitude of being of service, not being served.
- **Continuous Improvement:** We constantly strive to each be better than we currently are and to deliver to our clients more than they expect.
- **Meaningful Relationships:** All efforts on behalf of Pelican will be aimed at developing relationships rooted in trust and integrity.

# Pelican Value Proposition

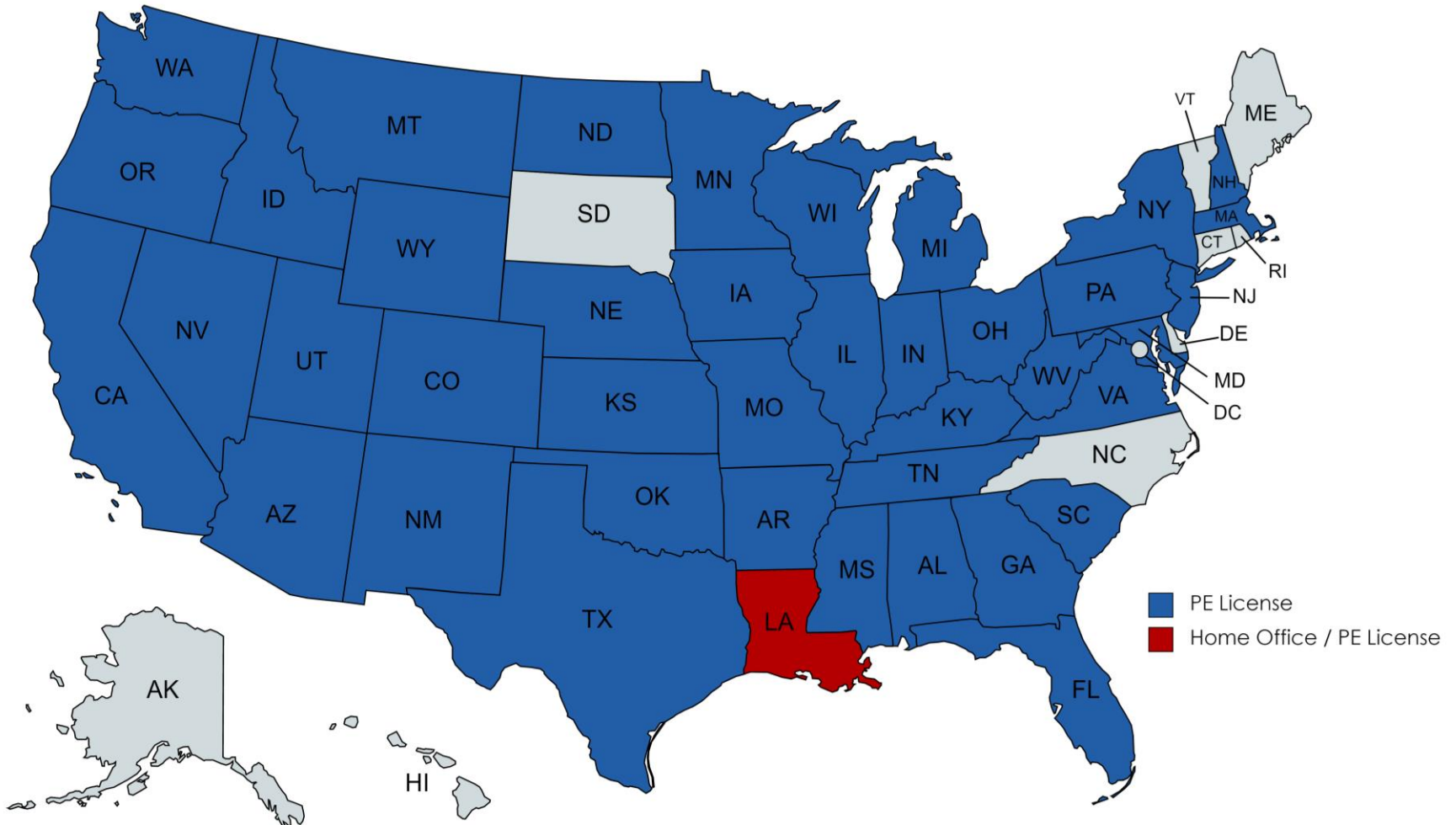


# Organizational Chart





# PE Licenses and Office Location



# HS&E

## FOCUS

At Pelican, our top priority is the safety of all personnel. Our commitment to SAFETY extends throughout our entire Pelican Team in addition to our Clients and the Community. Pelican's goal is to ensure all people involved with Pelican remain safe regardless of the working environment.

## COMMITMENT

Pelican's corporate purpose of improving lives demands the creation and maintenance of a culture of safety. This culture is created by investing the necessary time and resources keeping our employees trained in the latest safety training modules and safe work practices. Every meeting begins with a safety moment; all jobs are continually analyzed from a safety perspective and safety awards are a regular business practice to reward behavioral safety.

## EXECUTION

In addition to providing extensive training for all of our team members, every Pelican employee is empowered with Stop Work Authority to ensure their work environment and people are always safe. We want everyone to safely return home to their families at the end of each workday. Pelican works hard to ensure that our HS&E programs are designed to meet or exceed all client requirements and are compliant through ISNetworld, PEC Premier, etc. Pelican has remained an industry leader in safe work practices and Pelican's commitment to safety has led to well over 3,372,152 man hours worked without a lost-time incident.







# Certificate of Insurance

Client#: 53053

PELEN

## ACORD<sup>TM</sup> CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
08/23/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer any rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Ross & Yerger Insurance, Inc. P.O. Box 1139 Jackson, MS 39215 601 948-2900		<b>CONTACT</b> NAME: Allison Quick, CISR PHONE (A/C, No, Ext): 601 944-0982 FAX (A/C, No): 601 355-3227 E-MAIL ADDRESS: aquick@rossandyerger.com															
<b>INSURED</b> Pelican Energy Consultants, LLC 180 New Camellia Boulevard, Suite 100 Covington, LA 70433		<table border="1"> <thead> <tr> <th>INSURER(S) AFFORDING COVERAGE</th> <th>NAIC #</th> </tr> </thead> <tbody> <tr> <td>INSURER A: Indian Harbor Insurance Co./US Risk</td> <td>36940</td> </tr> <tr> <td>INSURER B: Louisiana Workers' Compensation Corp.</td> <td>22350</td> </tr> <tr> <td>INSURER C: LWCC/United States Insurance Services</td> <td></td> </tr> <tr> <td>INSURER D: Crum &amp; Forster/U. S. Risk</td> <td></td> </tr> <tr> <td>INSURER E: Travelers Casualty Ins. Co. of America</td> <td>19046</td> </tr> <tr> <td>INSURER F:</td> <td></td> </tr> </tbody> </table>		INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A: Indian Harbor Insurance Co./US Risk	36940	INSURER B: Louisiana Workers' Compensation Corp.	22350	INSURER C: LWCC/United States Insurance Services		INSURER D: Crum & Forster/U. S. Risk		INSURER E: Travelers Casualty Ins. Co. of America	19046	INSURER F:	
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COVERAGES CERTIFICATE NUMBER: 829534 REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSUR LTR	TYPE OF INSURANCE	ADDITIONAL SUBR INSR. WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> BI/PD Ded: \$5,000 GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> SUBJECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER:		US00084322LI22A	05/21/2022	05/21/2023	EACH OCCURRENCE \$1,000,000 DAMAGES TO RENTED PREMISES (Per occurrence) \$300,000 MED EXP (Any one person) \$5,000 PERSONAL & ADV INJURY \$1,000,000 GENERAL AGGREGATE \$2,000,000 PRODUCTS - COMP/OP AGG \$2,000,000 \$
E	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY		BA6N5144302242G	05/21/2022	05/21/2023	COMBINED SINGLE LIMIT (Per accident) \$1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
A	<input type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> EXCESS LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$		US00084323LI22A	05/21/2022	05/21/2023	EACH OCCURRENCE \$5,000,000 AGGREGATE \$5,000,000 \$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N/A	113893D (LA) MWC30000509 (Other)	05/21/2022 05/21/2022	05/21/2023 05/21/2023	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE - EA EMPLOYEE \$1,000,000 E.L. DISEASE - POLICY LIMIT \$1,000,000
D	Excess Umbrella		SEO118563	05/21/2022	05/21/2023	\$5,000,000 Occurrence \$5,000,000 Aggregate

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
 Contractor's Pollution Liability: Policy #US00084322LI22A; Indian Harbor Ins Co; 05/21/2022-05/21/2023  
 Limit: \$1,000,000 Each Occurrence/\$1,000,000 Aggregate  
 Deductible: \$10,000 Per Occurrence  
 Professional Liability: Policy #US00084323LI22A; Indian Harbor Ins Co; 05/21/2022-05/21/2023  
 Limits: \$1,000,000 Each Claim/\$1,000,000 Annual Aggregate  
 (See Attached Descriptions)

CERTIFICATE HOLDER	CANCELLATION
	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE <i>Dudley A. Woodley</i>

ACORD 25 (2016/03) 1 of 2  
 #S829534/M795584

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# Engineering Services

- Project Management
- Process Engineering
- Mechanical / Facilities Engineering
- Civil / Structural Engineering
- Electrical and Instrumentation Engineering
- Procurement Services
- On-Site Construction Support
- EPC Services with Alliance Partners







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# Design/ Drafting

- Multi-Disciplined Design & Drafting
- ADEPT — Document Control Services
- Onsite Field Trips — Laser Scanning Technology for Facility Retrofit
- 3D Model Presentation and Walk-through
- Utilizing the Industries Latest Drafting Software



# On-Site Construction Support

## On-site Construction

- Construction Managers
- Construction Coordinators
- Chief Certified Welding Coordinators (CCWI's)
- Certified Welding Coordinators (CWI's)
- N.A.C.E. Certified Coordinators
- Electrical & Instrumentation Coordinators
- Production Operators
- Civil Coordinators
- Safety Coordinators
- Utility Coordinators
- Material Coordinators
- Field Office Clerks

## Services

- Project Planning and Execution
- Contractor Bidding Support
- Contractor Negotiations and Administration
- Project Scheduling
- Status and Cost Reporting
- Project Logistics Coordination and Materials Handling
- Health, Safety and Planning I Coordination
- Problem Resolution
- Start-up and Commissioning Support

## Safety Qualifications

- ISNetworld
- PEC
- VeriForce

# Pelican CO<sub>2</sub> Background

- Executed CO<sub>2</sub> focused projects in excess of \$2 billion in TIC
- 25+ years of CO<sub>2</sub> capture, processing, transportation and utilization experience
- Individual and regional carbon management solution development
- Complete EPC capabilities for entire value chain – Capture through Sequestration
- Leverage all available post combustion carbon capture technologies for ideal solution
- Strategy development for the “E” in your ESG

# Engineering Solutions for Carbon Capture

Pre and Post Combustion Carbon Capture Design from the following facilities:

- Amine Plants
- Ethanol Plants
- Ammonia Plants
- Landfills
- Refineries
- LNG Terminals
- Steel Mills
- Chemical Processing
- Power Plants
- Cement Plants

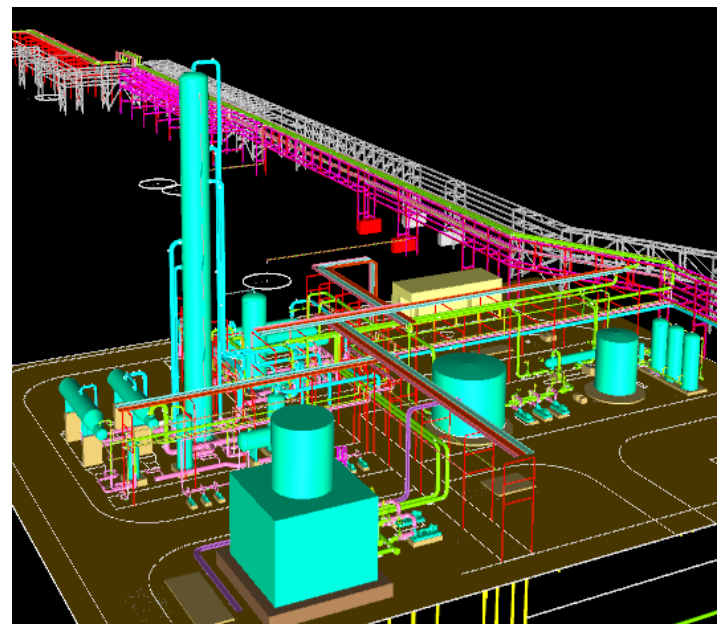
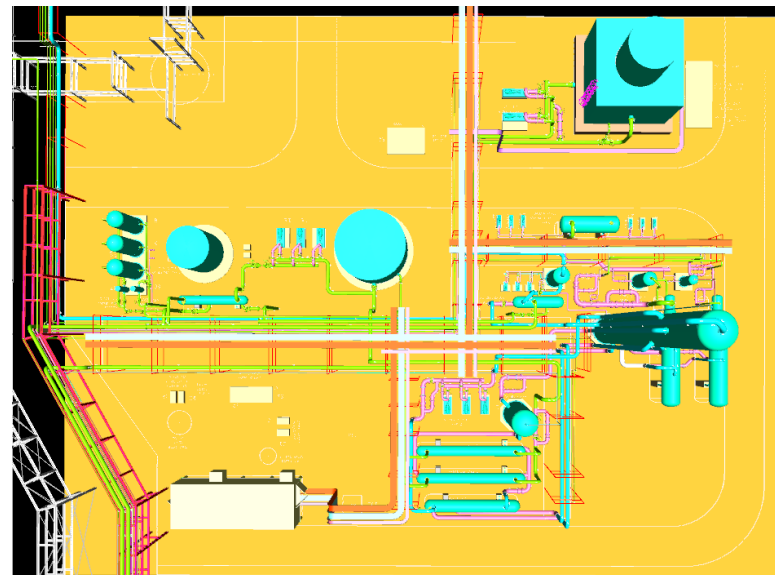


# CO<sub>2</sub> Post Combustion Capture Facility

**Location:** Confidential

**Project Description:**

- 1,000 MT/Day Post Combustion CO<sub>2</sub> Capture from Existing Steam Boilers
- 15,800 MT/Day (300 MMSCFD) Flue Gas Processing (6% CO<sub>2</sub>)
- New SCR to Reduce NO<sub>x</sub>/SO<sub>x</sub> Emissions to Meet Environmental Permit Requirements
- Brownfield Site Consists of New Capture, Recovery, Liquefaction / Purification and Storage Truck/Rail Loading Area
- End User requires Food and Beverage Grade CO<sub>2</sub>
- Amine System with Specialty Solvent for Reduced OPEX



# CO<sub>2</sub> Capture and Gathering System



**Location:** Confidential

**Project Description:**

- 5.5 MM MT/Year CO<sub>2</sub> Capture from Refinery (FCC), Hydrogen and Nine (9) Power Plants
- 10 Mile (16 Km) Area of Gathering from Sources
- Centralized Compression and Dehydration Facility Utilizing Centrifugal Compressors
- Presented Options for Centralized Regeneration Systems or Individual Per Site
- Near Atmospheric Suction to 1,500 psig Compressor Discharge for Sequestration
- Conventional Solvents Modeled with Specialty Solvents Anticipated at Time of Construction

# CO<sub>2</sub> Capture from Amine Plant

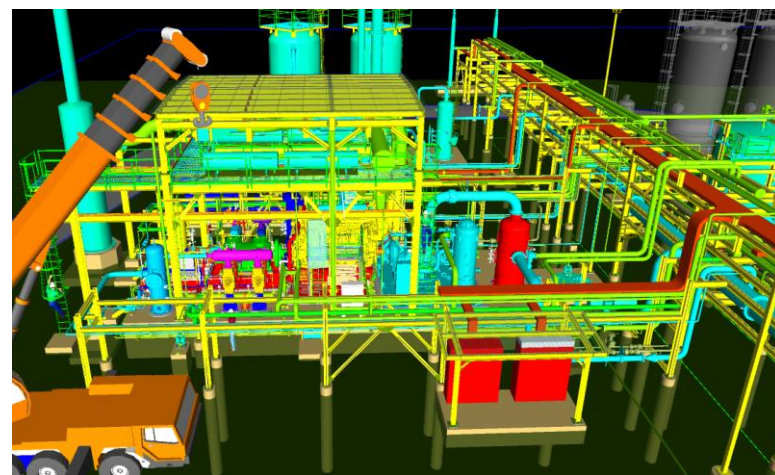
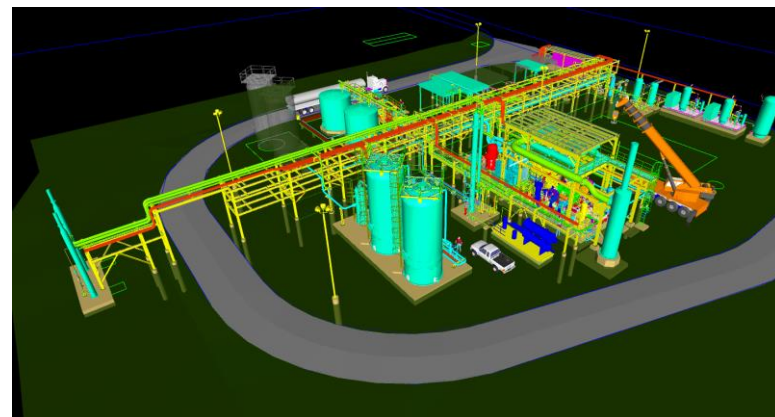
**Location:** Texas

**Project Description:**

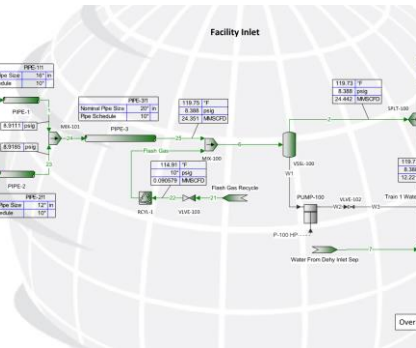
- 9 MMSCFD CO<sub>2</sub> Capture from Amine Plant
- Neuman & Esser Combined Screw/Reciprocating Compressor Package
- TEG Gas Dehydration
- Sulfa Treat H<sub>2</sub>S Removal System
- Near Atmos. Suction to 2,100 psig Compressor Discharge

**Pelican Scope & Deliverables:**

- Process, Mechanical, Instrumentation, Electrical, Civil and Structural Design Packages for all Facilities
- Engineering Project Management including Procurement, Material Expediting, Project Schedule, Cost Tracking and Construction Support
- PHA/HAZOP Reviews and Safety System Design



## A decorative graphic consisting of two horizontal rows of blue dots. Each row contains 10 dots, for a total of 20 dots.



### Project Description:

- 500,000 MT/Year CO<sub>2</sub> Capture from Amine Plant
- Study for Refrigeration/Pumping vs. Compression
- Selected Compression due to lower CAPEX/OPEX
- TEG Gas Dehydration
- Sulfa Treat H<sub>2</sub>S Removal System
- Near Atmos. Suction to 1,700 psig Compressor Discharge to Sequestration

### Pelican Scope & Deliverables:

- Process, Mechanical, Instrumentation, Electrical, Civil and Structural Design Packages for all Facilities
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- PHA/HAZOP Reviews and Safety System Design





# CO<sub>2</sub> Capture from Amine Plant



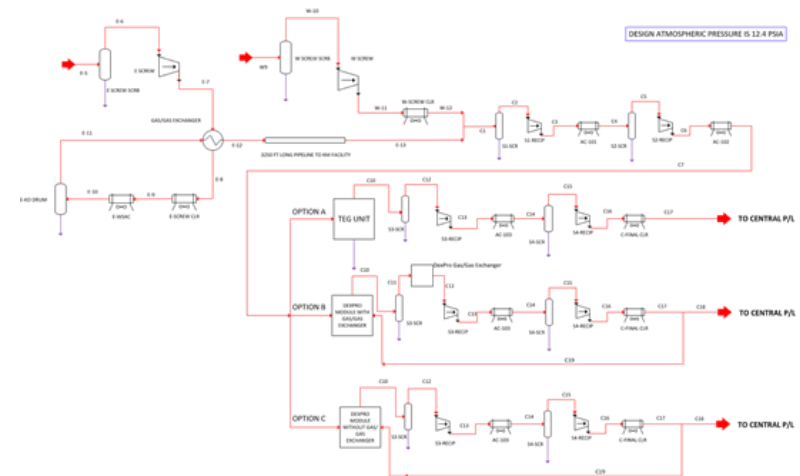
**Location:** New Mexico

## **Project Description:**

- FEED Study to capture 70 MMSCFD CO<sub>2</sub> from two Amine Plants within ¾ miles apart
- Oil Free Rotary Screw Compressors and Reciprocating Compressors
- Atmospheric Suction Pressure to 1,800 psig
- TEG Glycol System with Structured Packing Tower

## **Pelican Scope & Deliverables:**

- System Design
- Development of Design Basis, Cost Estimate and Schedule
- Provide compressor selection options with Opex vs Capex Studies



# CO<sub>2</sub> Capture from Ethanol Plant

**Location:** Kansas

**Project Description:**

- 10 MMSCFD CO<sub>2</sub> Capture from Ethanol Plant
- Gardner Denver Blower and Dresser Rand 4 stage Reciprocating Compressor Packages
- Atmospheric Suction Pressure to 2,100 psig Compressor Discharge

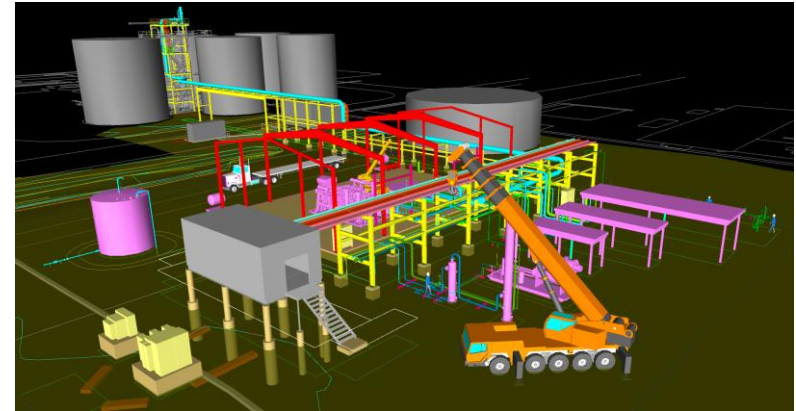
**Pelican Scope & Deliverables:**

- Process, Mechanical, Instrumentation, Electrical, Civil and Structural Design Packages for all Facilities
- Engineering Project Management including Procurement, Material Expediting, Project Schedule, Cost Tracking and Construction Support
- PHA/HAZOP Reviews and Safety System Design
- Operator Training on Capture, Pipeline and EOR Operations





# CO<sub>2</sub> Capture from Ethanol Plant



**Location:** Kansas

- **Project Description:**

- 11 MMSCFD CO<sub>2</sub> Capture from Ethanol Plant
- Howden WRVI Screw Compressors and Ariel 3 stage Reciprocating Compressor Packages
- Atmospheric Suction Pressure to 1,800 psig
- TEG Glycol System with Structured Packing Tower

- **Pelican Scope & Deliverables:**

- Process, Mechanical, Instrumentation, Electrical, Civil and Structural Design Packages for all Facilities
- Engineering Project Management
- PHA/HAZOP Reviews and Safety System Design

# CO<sub>2</sub> Process Facility

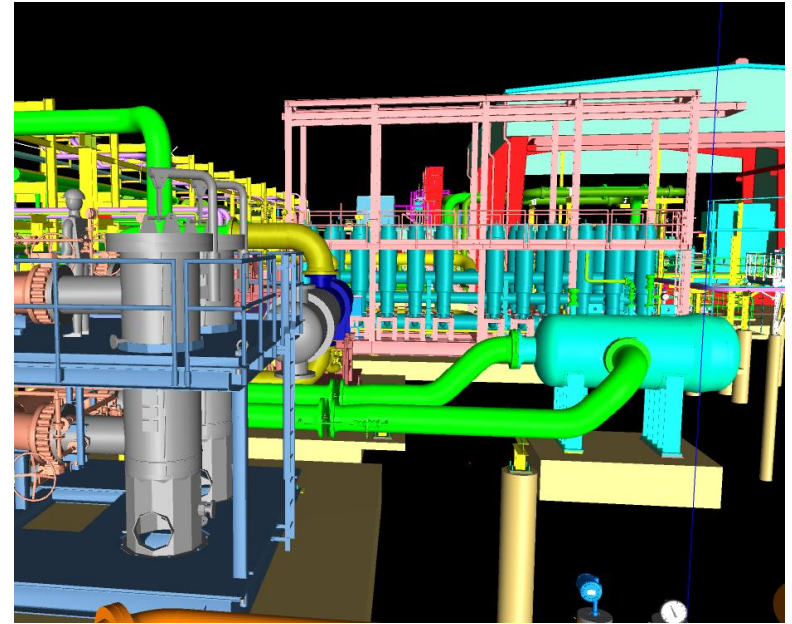
**Location:** Louisiana

**Project Description:**

- Methane Removal and NGL Production Project
- Separating Methane and NGL from CO<sub>2</sub> Recycle Stream
- 200 MMSCFD CO<sub>2</sub>
- Major equipment consisted of Silica Gel Dehydration, 2-Stage Membranes, Chiller, Stabilizer, Dewpoint Control, Dresser Rand 2 Section 20,450 HP Centrifugal Compressor, LP and MP Screw Compressors, Hot Oil Systems and NGL Storage and Truckloading.

**Pelican Scope & Deliverables:**

- Process, Mechanical, Instrumentation, Electrical, Civil and Structural Design Packages for all Facilities
- Engineering Project Management including Procurement, Material Expediting, Project Schedule, Cost Tracking and Construction Support
- PHA/HAZOP Reviews and Safety System Design



# CO<sub>2</sub> Compressor Station

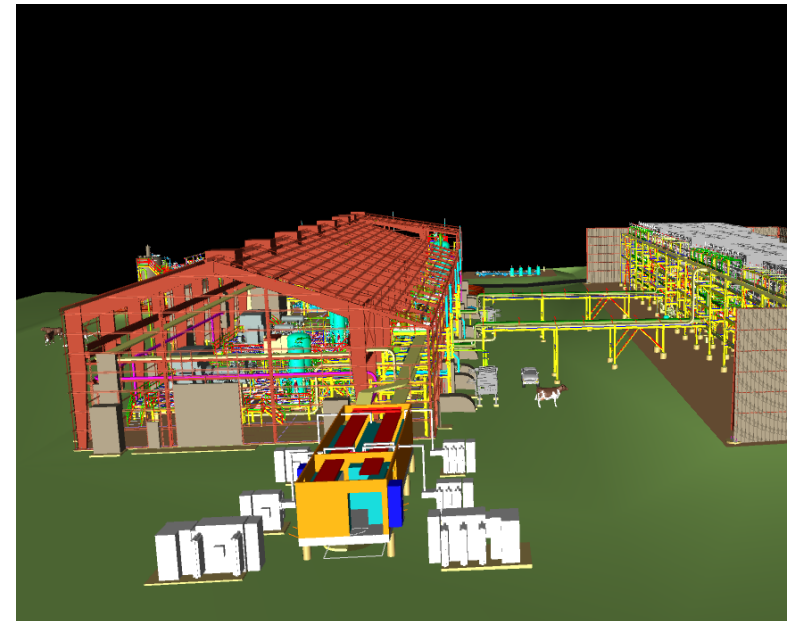
**Location:** Colorado

**Project Description:**

- CO<sub>2</sub> Compression Station
- Design Rate: 200 MMSCFD
- Dresser Rand HHE frame compressors with a total of 11,000 HP
- Suction pressure: 550 psig with discharge pressure of 2,200 psig
- Gas Dehydration Utilizing Glycol Dehydration (DEG) System

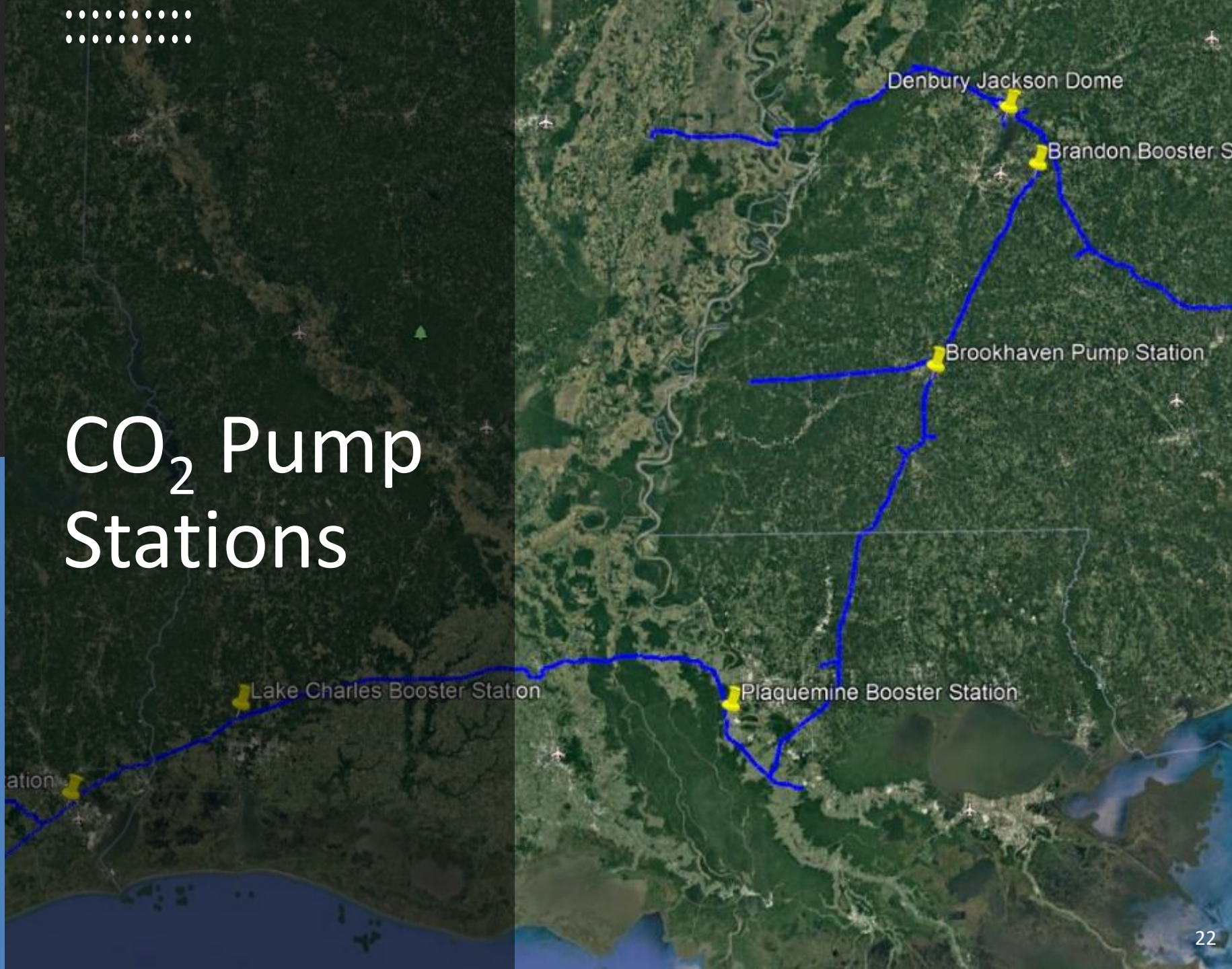
**Pelican Scope & Deliverables:**

- Process, Mechanical, Instrumentation, Electrical, Civil and Structural Design Packages for all Facilities
- Engineering Project Management, Procurement, Material Expediting, Project Schedule, Cost Tracking and Construction Support
- PHA/HAZOP Reviews and Safety System Design





# CO<sub>2</sub> Pump Stations



# CO<sub>2</sub> Pump Station



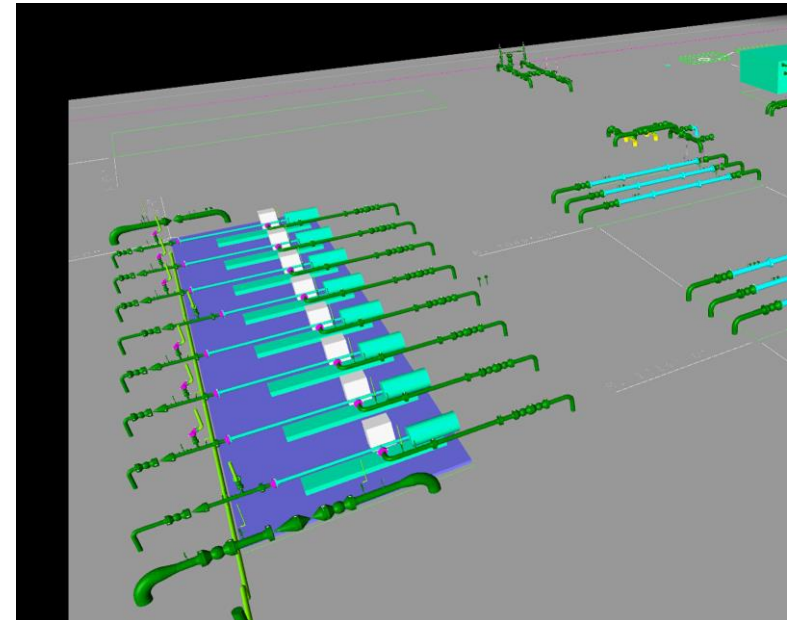
**Location:** Mississippi

**Project Description:**

- CO<sub>2</sub> Mid-Line Pump Station
- Design Rate: 800 MMSCFD
- Utilized eight (8) Woodgroup TN3500 Horizontal Centrifugal Pumps
- Suction pressure: 1250 psig suction pressure with discharge pressure of 2160 psig
- Installation of two (2) WSAC to allow for more efficient transportation

**Pelican Scope & Deliverables:**

- Mechanical, Instrumentation, Electrical, Civil and Structural Design Packages for all Facilities
- Engineering Project Management, Procurement, Material Expediting, Project Schedule, Cost Tracking and Construction Support
- PHA/HAZOP Reviews and Safety System Design





# CO<sub>2</sub> Enhanced Oil Recovery

**Location:** Mississippi

**Project Description:**

- Design, Fabrication, and Installation of a CO<sub>2</sub> Recycle Oil Processing Facility
- Design Rates: 60 MMSCFD CO<sub>2</sub> Recycle, 2,000 BOPD, 5,000 BWPD
- 850 psig Incoming Working Pressure, 3,150 psig Injection Pressure
- Utilized Three (3) Dresser-Rand 6HOS/2 20 MMSCFD Recycle Compressors
- Utilized Two (2) GE TJ9000 Horizontal Centrifugal Pumps

**Project Deliverables:**

- Process Flow Diagrams with Heat / Material Balance and Heat Exchanger Design.
- Process, Mechanical, Instrumentation, Electrical, Civil and Structural Design Packages for all Facilities
- Equipment Sizing and Instrument Specifications.
- Start up support, Pre-Startup Safety Reviews (PSSR)





# CO<sub>2</sub> Enhanced Oil Recovery

**Location:** Texas

**Project Description:**

- Design, Fabrication, and Installation of a CO<sub>2</sub> Recycle Oil Processing Facility
- Design Rates: 200 MMSCFD CO<sub>2</sub> Recycle, 8,000 BOPD, 40,000 BWPD
- 850 psig Incoming Working Pressure, 2,200 psig Injection Pressure
- One (1) Dresser Rand 5HOS/4 15 MMSCFD L.P. Recycle Compressors with CAT G3608 w/SCR
- One (1) Dresser Rand 5HOS/4 38 MMSCFD H.P. Recycle Compressors with CAT G3606 w/SCR
- Three (3) Dresser Rand 5HOS/6 50 MMSCFD Recycle Compressors with CAT G3608 w/SCR

**Project Deliverables:**

- Process, Mechanical, Instrumentation, Electrical, Civil and Structural Design Packages for all Facilities
- Overall Project Management including Procurement, Material Expediting, Project Schedule, Cost Tracking and Control
- Start up support, Pre-Startup Safety Reviews (PSSR)



# Pelican Value Add Summary

- Extensive experience in Capture, Processing / Purification, Transportation of CO<sub>2</sub> and Utilization for past 26 Years (17 at Pelican)
- With Pelican's design experience in CO<sub>2</sub> capture and transportation systems from multiple source types, it allows for more efficient designs and reduced engineering / equipment costs with compressed schedules
- Extensive fabrication and construction management experience leads to reduced project risk / higher quality equipment
- Provide design for complete Carbon Management Plans – Capture, Transportation, EOR or Sequestration to aid in ESG Story / Strategy
- Provide operator training for CO<sub>2</sub> systems; operation of CO<sub>2</sub> is unique and training to troubleshoot critical equipment is vital to uptime

[www.pelicanenergy.com](http://www.pelicanenergy.com)

