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October 29, 2013

HAND DELIVERY

Mr. Darrell Nitschke
Executive Director
NORTH DAKOTA PUBLIC
SERVICE COMMISSION
600 E. Boulevard Avenue, Dept. 408
Bismarck, ND 58505-0480



Dear Mr. Nitschke:

In re: Tesoro High Plains Pipeline Company LLC
Certification of Applicant
Amoco Pipeline Company, Lignite-Ramberg Crude Oil Pipeline Reroute
Our File No. 90-532-001

Enclosed are the original and ten copies of Tesoro High Plains Pipeline Company LLC's Certification of Applicant Pursuant to North Dakota Century Code § 49-22-03(3).

Included with the Certification is (1) a map of the location showing the reroute and (2) the environmental letter report of Robert Stowers, C.P.G. The environmental report will be submitted to the North Dakota State Historic Preservation Office and a copy of their response will be filed with the Commission upon receipt.

Very truly yours,

A handwritten signature in blue ink that reads "Wade C. Mann".

WADE C. MANN

bw
Enc.
cc: Pat Fahn

BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF NORTH DAKOTA

Tesoro High Plains Pipeline
Company LLC

CASE NO. PU-_____

**CERTIFICATION OF APPLICANT PURSUANT TO
NORTH DAKOTA CENTURY CODE § 49-22-03(3)**

The undersigned, Greg Henderson, a duly authorized agent of Tesoro High Plains Pipeline Company LLC (“Tesoro”), having the authority to act on behalf of and by Tesoro, does hereby certify under oath:


1. That Tesoro owns and operates several crude oil pipelines located in the State of North Dakota.
2. That in particular it operates that certain pipeline approved by the North Dakota Public Service Commission in Case No. PU-385-93-20 entitled *Amoco Pipeline Company, Lignite-Ramberg Crude Oil Pipeline* (“Pipeline”).
3. That said Pipeline was approved by the North Dakota Public Service Commission by Findings of Fact, Conclusions of Law and Order issued July 8, 1993. That in conjunction therewith, Route Permit No. 75 was issued to Amoco Pipeline Company, along with Certificate of Site Compatibility for a Transmission Facility Corridor Certificate No. 66.
4. That Corridor Certificate No. 66 approved a one-mile corridor approximately 4.5 miles in length and extending in a southerly direction from Amoco Pipeline Company’s Lignite Station to its Black Slough Station in Burke County; and a two-mile wide corridor approximately 25.6 miles in length and extending in a southwesterly direction from the

Amoco Pipeline Company's Battleview Station in Burke County, North Dakota, across the westerly portion of Mountrail County and then to the Ramberg Station in Williams County.

5. That as a result of a recent pipeline leak as located in Section 8, Township 158 North, Range 94 West, Mountrail County, North Dakota, it was necessary for Tesoro to replace approximately 1400 feet of the existing pipeline.
6. That as identified in the map attached hereto as Exhibit A, the pipeline was rerouted for this approximate 1400 foot distance in order to avoid construction in the leak area.
7. That pursuant to North Dakota Century Code § 49-22-03(3)(a), as Tesoro has previously obtained a Certificate and Permit for this Pipeline, Tesoro certifies that the reroute is wholly within the boundaries of said previously issued Corridor Certificate No. 66.
8. That as identified in the attached Report, the construction activity did not affect any known exclusion or avoidance areas.
9. That Tesoro will comply with all applicable conditions and protections in Chapter 49-22 North Dakota Century Code and of rules and Commission orders previously issued for this Pipeline.

Dated this 28 day of October, 2013.

TESORO HIGH PLAINS PIPELINE
COMPANY LLC

BAM *JS* By 
Greg Henderson, Assistant Vice President

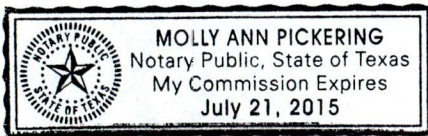
STATE OF TEXAS)
)SS.
COUNTY OF BEXAR)

On this 28th day of October, 2013, before me, a notary public for the State of Texas, personally appeared Greg Henderson, Assistant Vice President, Tesoro High Plains Pipeline Company LLC, known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and seal the date first written above.

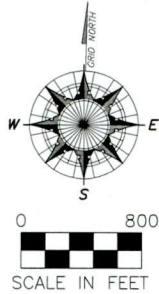
Molly Ann Pickering
_____, Notary Public
Bexar County, Texas
My Commission Expires: 7/21/15

(SEAL)



NOTES:

1. \odot = FOUND MONUMENT AS NOTED
2. THIS DOCUMENT IS FOR PIPELINE EASEMENT PURPOSES, AND IS NOT A BOUNDARY SURVEY
3. BASIS OF BEARING: NORTH DAKOTA STATE PLANE - 3301 GRID NORTH
4. THIS SURVEY IS REFERENCED TO THE NORTH DAKOTA - STATE PLANE COORDINATE SYSTEM - 3301 NORTH ZONE. BEARINGS & DISTANCES SHOWN HEREON ARE GRID. ALL DISTANCE UNITS ARE INTERNATIONAL FEET BASED, WITH A COMBINED SCALE FACTOR OF 1.00014648 TO CONVERT FROM GRID TO GROUND DISTANCES.
5. VERTICAL DATUM: MEAN SEA-LEVEL DATUM - NAVD 88
6. LATITUDE & LONGITUDE - NAD83 (2011)
7. TITLE INFORMATION PROVIDED BY TESORO
8. UNLESS SIGNED SEALED AND DATED, THIS IS A PRELIMINARY DOCUMENT AND CANNOT BE RELIED UPON IN WHOLE OR IN PART
9. THE EXISTING PIPELINE CENTERLINE AS SHOWN HEREON REFLECTS THE AS-BUILT PIPE LOCATION SURVEYED ON OCTOBER 7, 2013
10. THE PIPELINE RE-ROUTE CENTERLINE SHOWN HEREON REFLECTS THE AS-STAKED PIPELINE LOCATION SURVEYED ON OCTOBER 7, 2013



SURVEYOR'S CERTIFICATION:
 I, MATTHEW JACOBSON A PROFESSIONAL LAND SURVEYOR IN THE STATE OF NORTH DAKOTA DO HEREBY CERTIFY THAT THIS SURVEY WAS PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND THAT THE INFORMATION SHOWN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



TIOGA TO BLACK SLOUGH-JENSEN SPILL

SCALE: 1"=800'
 PO 3024487

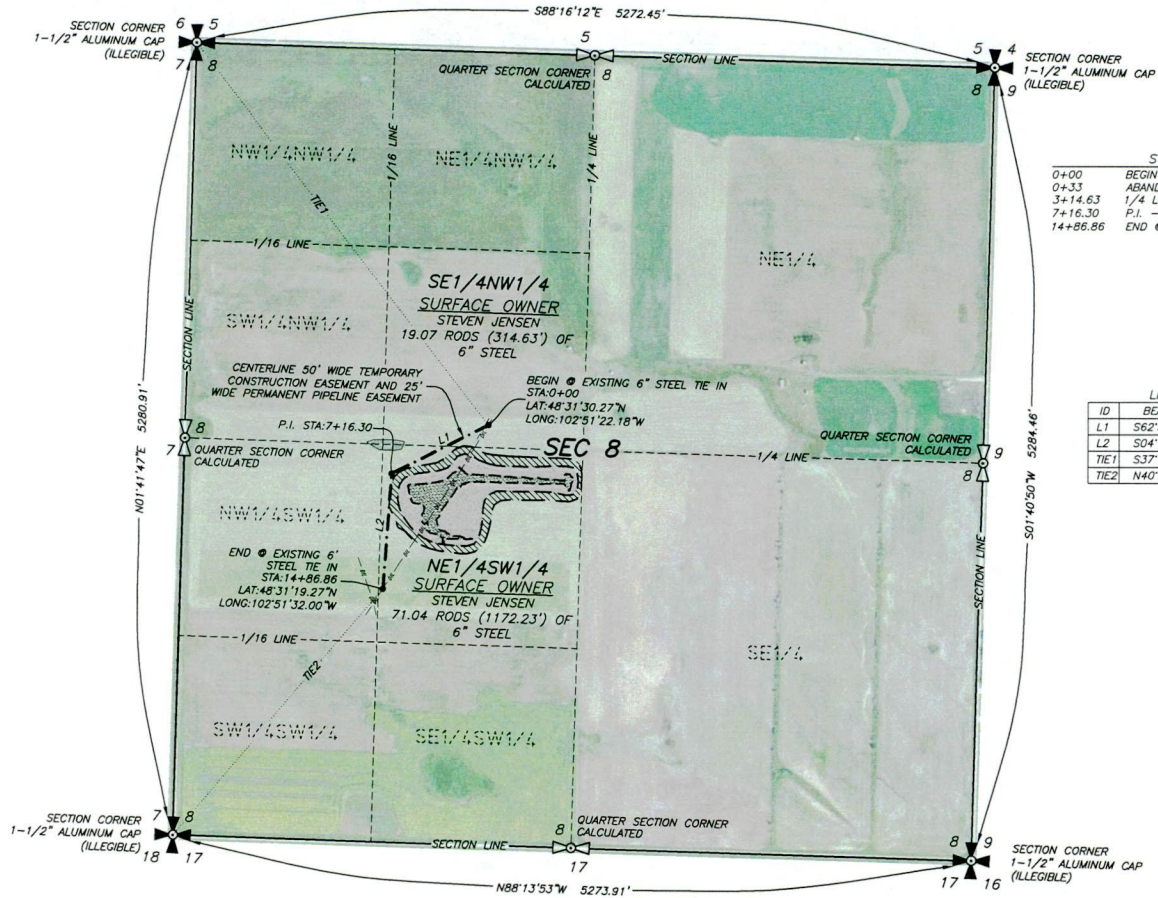
DRAWN: MS
 CHECKED: MJ
 SHEET TITLE: RE-ROUTE PIPELINE



CIVIL ENGINEERING • SURVEYING • LAND USE CONSULTING
 www.TerritorialLandworks.com
 Phone: 406/721-0142 PO Box 3851
 Fax: 406/721-0224 Missoula, MT 59806

TIOGA TO BLACK SLOUGH-JENSEN SPILL

**SECTION 8, T.158N., R.94W., 5th P.M.
 MOUNTRAIL COUNTY, NORTH DAKOTA**



STATION TABLE

STATION	DESCRIPTION
0+00	BEGIN \odot EXISTING 6" STEEL TIE IN
0+33	ABANDONED TESORO OIL PIPELINE
3+14.63	1/4 LINE
7+16.30	P.I. - DEFL. ANGLE 58'48"05
14+86.86	END \odot EXISTING 6" STEEL TIE IN

LINE TABLE

ID	BEARING	DISTANCE
L1	S62°59'47"W	716.30'
L2	S04°11'42"W	770.55'
TIE1	S37°12'49"E	3201.21'
TIE2	N40°31'12"E	2151.44'



Tesoro Logistics GP, LLC
19100 Ridgewood Parkway
San Antonio, TX 78259
210 626 6000

October 27, 2013

SUBJECT: Letter Report of Findings Regarding Exclusion and Avoidance Areas associated with an approximate 1,400' re-route of Tesoro's High Plains 6-inch crude oil Pipeline in Mountrail County, North Dakota on the Steve Jensen Tract located approximately 9-miles NNE of the town of Tioga.

To Whom It May Concern:

On October 6-8, 2013, I observed the proposed re-route of the above-referenced pipeline segment. The entire 1,400' segment is located in a previously disturbed, agricultural field (wheat) that is topographically situated at the top of a broad, gently sloping hillside.

Field observation and investigation of this proposed re-route revealed no areas of environmental or cultural resource concerns. No wetlands are present nor are there any areas of cultural resource concerns. Furthermore no residences occur within 500' of the new pipeline alignment. A review of the May 1993 PSC application filed by the original pipeline owner, Amoco Pipeline Company, confirms these findings.

Soils at the site are comprised of the Williams-Zahl Sandy Loam Series. Topsoil during installation of this pipeline segment was segregated and placed back in the trench after backfilling and on top of the native fill.

Therefore, based on the above-stated findings, no areas of exclusion or avoidance have been encountered.

In closing, please see the attached resume for my qualifications.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Robert Stowers", written over a horizontal line.

Robert Stowers, C.P.G.
Director of Environmental – Tesoro Logistics, L.P.

Robert E. Stowers II, C.P.G.

1107 Saddle Horse
San Antonio, TX 78260
(281)382-6408
robstowers@att.net



Professional Summary

Twenty-five years of technical, management, and business development experience on multi-disciplined, large- and small-scale environmental projects. Responsible for the business development and evaluation of international and domestic environmental business opportunities, regulatory compliance strategies and programs for various oil and gas, industrial, commercial and governmental clients. Technical experience includes the planning, permitting, compliance, auditing, assessment, modeling, remediation and technical-solutions for both domestic and international projects involving upstream, midstream and downstream oil and gas facilities/terminal; pipelines/transmission facilities and associated corridors; petrochemical plants and refineries; and other industrial complexes. Experience also includes environmental permitting and regulatory compliance issues involving subsurface soil and groundwater contamination, air emissions, wastewater effluent and both hazardous and solid wastes. Have extensive experience managing and coordinating engineering and environmental consultants, subcontractors, construction contractors and engineering design teams and corresponding schedules and budgets. Certified and Registered Professional Geologist. Proficient in Spanish.

Qualifications

Education

Mississippi State University - 1988
M.S., Geology (with special emphasis in Karst Hydrogeology)
The University of Texas at Austin - 1986
B.A., Geology (Petroleum Engineering Minor)

Professional Registrations

Registered Geologist: Texas (License #1041), Tennessee (#2050) and Kentucky (#0967)
Certified Professional Geologist #9354 - American Institute of Professional Geologists

Affiliations

American Institute of Professional Geologists
Southern Gas Association – Environmental Committee Member
International Right-Of-Way Association
Pipeliners Association of Houston
Association of Ground Water Scientists & Engineers
American Association of Petroleum Geologists

Current Position – Tesoro Logistics, L.P.

Director of Environmental (July 2013 - Present)

Responsible for management and oversight of all department-related activities including budgets, profitability, business development/sales, proposal development, personnel management/mentoring/coaching, project planning and execution, technical advice and regulatory compliance issues. Mr. Stowers has a long-track record of providing clients with direct and third-party regulatory planning and oversight on oil & gas pipeline and facilities projects across the country and internationally. Mr. Stowers has a vast amount of knowledge and experience working with various international, federal, state and local regulatory agencies and their associated environmental permitting processes, protocols and guidelines, as well as a complete understanding the upstream, midstream and downstream engineering design and construction processes. He frequently serves as regulatory liaison for numerous clients. Mr. Stowers has extensive experience working directly with pipeline and facility engineers, as well as, right-of-way, survey, map/drafting and GIS professionals as part of a fully integrated team to ensure project design in full compliance while avoiding and/or minimizing environmental and social impacts. In this capacity, he is very experienced in the development and evaluation of the numerous engineering and environmental plans, drawings and procedures that are a requisite part of the permitting effort.

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Professional Experience

March 1999 May 2013 (Mustang Engineering, L.P.)

Manager of Environmental Permitting and Compliance

Environmental Program Sponsor and Coordinator for Master Service Agreements with major domestic and international oil & gas clients and pipeline transmission companies. Responsible for overall environmental program quality assurance and quality control as well as program compliance and execution. Programs consist of oil and gas exploration/production, gathering and transmission systems throughout the upstream, midstream and downstream business units. Key projects and responsibilities have included the following.

Environmental management and coordination of environmental permitting effort to prepare, submit and obtain all required federal, state and local environmental permits for several crude oil production gathering, storage, railcar loading terminals, and pipeline transmission facilities in North Dakota associated with Bakken Shale production.

CLIENT: *Tesoro Logistics, Occidental Petroleum, Plains All-American*

Lead Environmental Professional/Investigator on several Environmental Due Diligence Studies for various asset acquisitions and transfers for Tesoro Corporation. Facilities have included a recently constructed Crude Oil Rail Car Off-Loading Facility at the Tesoro Refinery located in Anacortes, Washington, as well as, petroleum storage and marketing terminals in southern California. These Phase I Environmental Site Assessments were conducted in close accordance with ASTM 1527-05 Standards and the USEPA's "All Appropriate Inquiry" methods.

CLIENT: *Tesoro Logistics*

Environmental Program Manager for Heavy Crude Evacuation Program for international client in Colombia, South America. Responsible for permit strategy development, implementation and execution for numerous crude oil transportation and export projects being executed by client. Projects included selection and management of third-party subcontractors/consultants in the preparation and submittal of the associated Environmental and Social Impact Assessments (EIAs) in accordance with Colombian law and international standards, including all other federal, provincial and local permit requirements. Management of multiple project technical teams and provides coordination/interface between, client, engineering design teams and various consultants. Ultimately responsible for environmental regulatory compliance and successfully obtaining all authorizations for construction of all Program related projects including large-diameter cross-country pipelines, pumping stations and export/storage terminals both onshore and offshore.

CLIENT: *Ecopetrol*

Responsible for overall Environmental Program Management for petroleum logistics systems for major domestic oil and gas company including planning and permitting of oil, natural gas and liquid hydrocarbon pipelines and associated facilities throughout the Texas and Louisiana Gulf Coast.

CLIENT: *Shell Pipeline Company*

Provide consultation and oversight of environmental permitting effort to prepare, submit and obtain all required federal, state and local permits for several large diameter, natural gas liquids (NGLs) pipelines along the Texas and Louisiana Gulf Coast.

CLIENT: *Enterprise Products Company*

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Environmental management and coordination of environmental permitting effort to prepare, submit and obtain all required federal, state and local environmental permits for numerous natural gas gathering and treatment systems, liquids storage, and pipeline transmission facilities in Pennsylvania and New Jersey associated with Marcellus Shale production.
CLIENT: *Chief Energy, Chesapeake, Energy, Caiman Midstream and Williams Gas.*

Oversight and coordination for large diameter interstate natural gas pipeline project in Alabama and Florida. Responsible for technical support/consultation to Project Design Team in support of FERC 7(c) application. Provided expert geologic/hydrogeologic advice, planning and direction for pipeline and facilities construction within a karst (sinkholes, etc.) terrain which ultimately saved the client millions of \$US dollars in re-routing and siting of proposed pipeline and facilities.
CLIENT: *Florida Gas Transmission Phase VIII*

Oversight on environmental permitting effort to prepare, submit and obtain all required federal, state and local permits for natural gas production gathering and transmission systems throughout the State of Pennsylvania.
CLIENT: *Various Clients*

Oversight on Environmental and Right-Of-Way Permitting effort to prepare, submit and obtain all required federal, state and local permits to construct a 67-mile, 14-inch hydrogen gas pipeline Mont Belvieu, Texas to Port Neches, TX..
CLIENT: *Air Products and Chemicals*

Oversight on environmental permitting effort to prepare, submit and obtain all required federal, state and local permits to construct a 37-mile, 14-inch hydrogen gas pipeline Norco, Louisiana to east New Orleans, LA.
CLIENT: *Air Products and Chemicals*

Responsible for obtaining all required international, federal, state and local permits to construct a 41-mile, 10-inch gasoline/diesel pipeline from El Paso, Texas to Juarez, Mexico. Included preparation of an Environmental Assessment and coordination with the U.S. Department of State for a Presidential Permit Application to cross the U.S international border. Responsible for coordination with Mexican consultant to obtain all regulatory authorizations in Mexico.
CLIENT: *PMI Services, Inc. (PEMEX North America)*

Senior Environmental Compliance and Permit Coordinator

Responsible for all federal, state and local permits associated with the design and construction of a Salt Dome Natural Gas Cavern Storage Facility and related interconnect pipelines. Responsible for coordination between all project disciplines including engineering, environmental, survey, drafting, right-of-way and legal to prepare the FERC 7(c) application for a Certificate of Public Convenience and Necessity. Oversee preparation of 13 environmental Resource Reports.
CLIENT: *Enstor Houston Hub Storage and Trans. L.P.*

Responsible for the preparation of a FERC 7(c) filing associated with the engineering design and construction of an underground Salt Dome Natural Gas Cavern Storage Facility and associated interconnect pipelines. Responsible for developing environmental Resource Reports 1 and 13 required by FERC.
CLIENT: *Mississippi HUB, L.L.C.*

Lead Environmental Coordinator for a Liquefied Natural Gas (LNG) Deepwater Port Facility consisting of a floating Regasification/Storage Terminal and submarine pipeline located offshore Southern California. Responsible for coordinating engineering design team efforts to identify and prepare technical permit data needs and deliverables that were incorporated into both the U.S. Coast Guard Deepwater Port License Application and for the California State Lands Commission Application. Served as a liaison between the Client, regulatory agencies and environmental consultant.
CLIENT: *Woodside Energy*

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Lead Environmental Coordinator for a LNG ReGas Demand and Transmission Distribution Study for the Petroleum Corporation of Jamaica (PCJ). Scope of work included the identification and scoping of regulatory permitting requirements of the National Environmental Planning Agency. The Study also included determining the most appropriate pipeline routing, including alternative analysis of the send-out gas pipeline system to avoid/minimize environmental impacts. Responsible for selecting and oversight of consultant for the preparation of the Environmental Impact Assessment.
CLIENT: *Petroleum Corporation of Jamaica (PCJ) and Natural Gas Company of Trinidad & Tobago*

Lead Environmental Coordinator for Project Team responsible for the preparation of Resource Reports 1 and 13 associated the expansion of the existing Trunkline LNG facility in Lake Charles, Louisiana. Project was a FERC 7(c) filing.
CLIENT: *Trunkline LNG*

Lead Environmental and Right-Of-Way Permitting Coordinator responsible for obtaining all required federal, state and local permits to construct a 12-mile, 10-inch hydrogen gas pipeline in Baytown, Texas.
CLIENT: *Air Products and Chemicals*

Lead Environmental Coordinator for Project Team conducting preliminary design of a proposed LNG facility and 80+ mile, 26-inch gas take-off pipeline from Bahamas to Florida. Responsible for the review of all 13 Resource Reports for FERC 7(c) filing including Draft/Final Environmental Impact Statement and Environmental Construction, Monitoring and Verification Plan to ensure environmental provisions were integrated into all design and construction elements.
CLIENT: *AES Ocean Express*

Environmental Project Manager for the Trans Alaska Pipeline System (TAPS) Cost Estimate to Re-Construct TAPS in 2005 US Dollars. This plus/minus 10% cost estimate exercise was conducted to use in both federal and State of Alaska arbitration hearings to negotiate depreciation allowances for the current TAPS ownership. Scope of work included determining all applicable environmental construction and operating permit requirements for the pipeline system and terminal including pumping stations, access roads and highways, construction camps, barrow pits, etc. All environmental impact mitigation costs, including right-of-way restoration, were determined in 2005 US Dollars. Expert witness testimonials were also provided.
CLIENT: *ExxonMobil Pipeline Company*

Conducted third party review of 13 Resource Reports required for a FERC 3(a) filing associated with a proposed LNG facility and ancillary pipeline along Texas Gulf Coast.
CLIENT: *Freeport LNG*

Lead Environmental Coordinator for the Houston Ship Channel (HSC) Pipeline Relocation Project. This three (3) year project resulted from a U.S. Army Corps of Engineers mandate to widen and deepen the HSC for the Port of Houston Authority. Responsible for all aspects of environmental permitting, reporting and compliance for various pipeline operating companies and contractor consortium. Relevant permits included construction, pipe removal, storm water, hydro-test source and discharge, emissions/flaring, water well installation and plug/abandonment. Additional duties involved the coordination for the disposal of various solid and liquid wastes including drilling mud, hazardous pipeline liquids, asbestos pipe coating, Naturally Occurring Radioactive Materials (NORM) in accordance with all applicable federal, state and local regulations and statutes. Negotiated and coordinated the restoration and mitigation of several man-made islands and temporary workspace areas with federal and state environmental regulatory agencies. Worked with Corporate Public Relations group to assist client in demonstrating model corporate stewardship of environment to the public, as well as non-governmental organization(s).
CLIENT: *ExxonMobil, Shell/Coral/Tejas/Intergen, TEPPCo, Enron, El Paso, Air Products, Air Liquide and Seadrift.*

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Participated in the preparation and review of the 13 resource reports of a FERC 7(c) permit filing for a natural gas salt dome storage facility and interconnect pipelines in southeast Mississippi.

CLIENT: *SG Resources, L.L.C.*

Responsible for a 30-mile, 16-inch natural gas pipeline through environmentally sensitive marsh and Mississippi River crossing in northeastern Louisiana and Mississippi. Permitting included the preparation of a FERC 45-day notification filing. Also, worked closely with various federal, state, and local resource agencies including U.S. Army Corps of Engineers (USCOE), U.S. Fish and Wildlife Service (USFWS), and Natural Resource Conservation Commission (NRCS) to acquire requisite construction permits.

CLIENT: *Columbia Gulf Transmission Company*

Assisted in preparation and acquisition of environmental and right-of-way permits for an 80-mile Natural Gas Liquids (NGL) pipeline through environmentally-sensitive marsh and Lake Pontchartrain in southern Louisiana.

CLIENT: *Gulf Liquids, L.L.C.*

Assisted in the preparation and filing of a Federal Energy Regulatory Commission's (FERC) 7(c) permit application for a natural gas pipeline in Mississippi.

CLIENT: *Petal Gas Storage Company*

Review, coordination and assessment of environmental permitting and compliance requirements for the re-commissioning of a 400+ mile, 30-inch pipeline from crude oil to products (gasoline) transmission in Texas.

CLIENT: *Longhorn Pipeline Partners, L.L.C.*

March 1990 to March 1999 (Raytheon Engineers & Constructors and Law Engineering)

Project Manager of an Environmental Assessment (EA)

Prepared for the Louisiana Department of Transportation related to an approximate 6-mile long road expansion project in the City of Baton Rouge, LA. Responsible for managing subcontractors (i.e., socio-economic, cultural/historical, ecological, wetlands, etc.) and field teams, as well as the preparation of the EA report. The results of the EA led to the preparation and filing of a Finding of No Significant Impact (FONSI), therefore, a comprehensive Environmental Impact Statement (EIS) was not required for the project.

CLIENT: *Louisiana Department of Transportation (LADoT)*

Project Environmental Coordinator

For New Source Review (NSR) air permit acquisition associated with construction of a new polymer manufacturing unit for a specialty chemical manufacturer in Deer Park, Texas.

CLIENT: *Lubrizol*

Environmental Field Manager

For an ASTM Risk-Based Corrective Action Assessment and a baseline Environmental Assessment/Audit of the Bolivian oil and gas pipeline system. The assessment/audit involved over 1,200 kilometers of pipeline and associated rights-of-way including 23 pump/compressor stations. Regulatory compliance issues dealt with during this project included air emission source, quality, and rate evaluation, wastewater quality and discharge, delineation of hydrocarbon impacted media including soil, groundwater, and surface water. A baseline survey was also performed to determine the existing conditions related to biology, hydrology, geology, and socio-economics of the various surrounding areas.

CLIENT: *Transredes S.A. (Enron/Shell)*

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Project Manager of an Environmental Impact Assessment (EIA)

Construction permitting for a proposed world-class nitrogen fertilizer plant in the Province of Santa Fe in eastern Argentina. This effort included the performance of a site investigation to determine pre-existing baseline conditions and an assessment of the potential environmental and socioeconomic impacts from the proposed facilities construction and operation activities. The study was conducted in accordance with World Bank standards.

CLIENT: *Agrium, Inc.*

Project Manager of All Aspects of a RCRA Facility Investigation (RFI)

Conducted on several operating blocks of a world-class chemical manufacturing facility located adjacent to the Brazos River in Freeport, Texas. Combined the blocks comprise a study area of approximately 400 acres.

CLIENT: *The Dow Chemical Company*

Environmental Project Manager

Performed Phase I and limited Phase II ESAs at a former metal fabricating facility near Waller, Texas. Assisted the client in filing an application with the State of Texas for the remediation of the site under the State's new Voluntary Cleanup Program (VCP) and served as regulatory liaison for the project.

CLIENT: *Chesterbrook Realty*

Conducted a compliance audit/ESA of the Lobo Field oil and gas production facility near Laredo, Texas. The project consisted of a topside facility audit and assessment of existing environmental conditions at the field's production facilities including production well sites, tank batteries, and gathering-line network.

CLIENT: *Conoco, Inc.*

Developed and implemented a subsurface investigation of soil and groundwater beneath a specialty chemical plant along an abandoned channel of the Brazos River system in Sugarland, Texas. The resultant analytical data, along with hydrogeologic parameters obtained from a shallow groundwater pumping test, were modeled using MODFLOW and MOC. A shallow groundwater recovery system was designed and implemented to maximize drawdown in the subject area. Recovered groundwater was routed to the plant's wastewater treatment system.

CLIENT: *Nalco Chemicals*

Developed remedial action plan for hydrocarbon fuel retail facility which included design of a groundwater pump and treat system. The system was designed on the basis of a modeled groundwater contaminant plume using the geologic, hydrogeologic, and chemical data collected during the comprehensive site assessment phase.

CLIENT: *Diamond Shamrock Corporation (now Valero)*

Managed a municipal solid waste facility groundwater compliance program. The program consisted of monitor well and piezometer installation and sampling at the Fort Bend County Landfill to delineate horizontal and vertical extent of contaminant plume. Numerous leachate collection wells and methane vent wells were installed. Served as client liaison with TNRCC. A Groundwater Sampling and Analysis Plan was prepared and approved by TNRCC.

CLIENT: *Fort Bend County Engineering*

Supervisor of numerous underground storage tank removals/closure operations at various retail facilities in Texas, Louisiana, Oklahoma, Florida, Wyoming. Projects included all aspects of health and safety issues, quality assurance and quality control, regulatory permitting, and reporting. Implemented field investigation activities including soil sampling to confirm removal of hydrocarbon impacted soils. Served as regulatory liaison for the client during all project phases. Corrective action plans were developed for sites with impacts to groundwater and soils above the regulatory allowables.

CLIENT: *Various Petroleum Retail Companies*

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Performed oversight of a multi-phase UST/AST tank farm closure project for a major international industrial coatings manufacturer. Project included development and execution of a closure plan for the removal of over fifty (50) above- and underground storage tanks used to store various resins and organic solvents. Soil remediation technologies included bio-degradation and land-filling. Final closure of the tank farm was approved by Texas Water Commission.

CLIENT: *International Paint and Coatings*

Conducted numerous Phase 1 ESAs/Due Diligence Assessments and Transaction Screenings (ASTM E-1528-00) of numerous commercial, industrial, and oil and gas properties located throughout the U.S., to assess the environmental liabilities associated with these properties. These typically non-invasive assessments were commonly conducted for various lending institutions and real estate development companies prior to the acquisition or divestiture of developed or undeveloped properties. When necessary, recommendations were made to eliminate or reduce the liability(s). Served as clients' regulatory liaison with federal, state, and local governmental agencies on projects regulatory issues and/or concerns.

CLIENTS: *Multiple*

Developed demolition specifications for naval radar tower facility. Specifications were developed with all appropriate and applicable code and statutes related to construction activities. Associated health and safety issues including asbestos and lead-based paint abatement. Assisted client with development of bid package, solicitation of qualified contractors sealed bids, and evaluation of bid documents.

CLIENT: *Raytheon Service Company*

Project Manager

On an erosion study of a 3.5-mile portion of the Brazos River channel located immediately south of the facility's solid waste management units. The project involved the review of aerial photographs to determine historical erosion patterns and the impact of erosion on existing facilities. The project also involved the assessment of potential river erosion problems on future site development.

CLIENT: *Dow Chemical Company*

Numerous geological/geotechnical studies and evaluations of commercial and industrial properties to assess geotechnical conditions of the sites' shallow subsurface. The potential for near-surface geologic faulting associated with these properties was also determined in many cases through detailed drilling programs in conjunction with shallow surface seismic techniques.

CLIENTS: *Multiple*

August 1988 to March 1990 (Exxon Company International)

Contract Geologist responsible for compiling geologic, geophysical and geochemical data into an exploration and production database used to reconstruct Paleozoic geologic basins throughout South America and Africa and ultimately to develop subsurface models for exploration and field development.