Subsea Projects - Domestic

AGIP- K2 Project
UniversalPegasus performed multi-well subsea design and engineering for AGIP's K2 Multi-well Subsea Development located in Green Canyon 562 in the Gulf of Mexico. In addition, UniversalPegasus provided conceptual study for field development, High Integrity Pressure Protection System (HIPPS) study and cost estimate, and assistance with subsea controls and umbilical(s) engineering.

Anadarko- Independence Hub Project
UniversalPegasus provided engineering permitting, procurement assistance and construction management services to Anadarko Petroleum for 195 miles of 8-inch and 10-inch subsea flowlines, umbilicals and subsea structures for their Independence Hub Project in the Gulf of Mexico (8,000 ft. water depth). The project included seven Steel Catenary Risers with over 120 miles of production control umbilicals in 15 segments with four dynamic riser sections. This project marked the first use of carbon fiber rods in the umbilical dynamic sections.

ATP Oil & Gas- Mirage Subsea Development Project
UniversalPegasus provided ATP Oil and Gas with the detailed design for development of a floating production facility and subsea field development to support a three well, dry tree development in the Mississippi Canyon 941 in the Gulf of Mexico (4,000 ft. water depth). Detailed design was also provided for both export pipelines and steel catenary risers (SCR), all subsea structures including three in-line (future connection) sleds, one PLET; and one pile anchored, oil tie-in manifold with break-away jumper. The scope also included all associated flow assurance analysis, project management, procurement and technical support for the subsea portion of this major hub development, including interface management, pre-commissioning, dewatering, start-up and regulatory assistance.

Bluewater Industries- Telemark Subsea Development Project
UniversalPegasus assisted Bluewater Industries with the construction of a high pressure-high temperature subsea tieback development, located in the Gulf of Mexico. UniversalPegasus provided detailed design of both flowline and umbilical, with associated catenary risers and the design of all subsea structures. UniversalPegasus also provided all associated flow assurance analysis, project management, procurement and technical support for the subsea portion of this development, including interface management, pre-commissioning, dewatering, start-up and regulatory assistance.

Chevron- Blind Faith Project
UniversalPegasus performed an independent review of practices requested by the Minerals Management Service (MMS) for Chevron's Blind Faith prospect in the Gulf of Mexico. This prospect was developed to carry production to the host facility, consisting of a semi-submersible floating production facility, located in Mississippi Canyon Block 696 (6,500 ft. water depth). The MMS requested a Certifying Verification Agent (CVA) perform independent review of practices employed in design, fabrication and installation of steel catenary risers (SCR's) to ensure conformance to all applicable regulations, standards, and industry packages. The scope of CVA consisted of witnessing critical activities defined by MMS, QA/QC inspections during flow-line and export pipeline fabrication, inspection of flow-line pipe coating and handling during load-out; welding, automated ultrasonic testing (AUT) and coating inspection during onshore flowline and SCR fabrication and spooling. Survey representation during pre-lay flow-line survey was provided. In addition, installation inspection and survey inspection during flowline, and SCR and oil export pipeline installation were provided.
Chevron- Tahiti Pipeline Project
UniversalPegasus involvement with this project included provision of client representatives to assist Chevron with the connection of the Tahiti Platform and the Amberjack Pipeline System, and other existing crude oil pipeline infrastructures in Green Canyon 641 in the Gulf of Mexico (4,200 ft. water depth). UniversalPegasus provided various QA/QC inspectors to act as client representatives during the flow line and export pipeline fabrication and construction processes. The services included welding inspection during the entire onshore fabrication phase of flow-line quad joints at JRM’s Amelia facility, welding inspection during onshore fabrication of PLET’s and subsea equipment, and during the oil export pipeline installation activities onboard the Allseas Solitaire vessel.

ENI- Longhorn Field Project
UniversalPegasus provided detailed detailed engineering design services including: subsea, controls, umbilicals and flow-lines to ENI for the completion of the Longhorn Project. Located in Mississippi Canyon 502 in the Gulf of Mexico (2,400 ft. water depth), the project required the transportation of a subsea manifold to an existing fixed host platform via two 8-inch flowlines. Special care was taken during transportation due to the production of gathered gas by the subsea manifold from three wells. Additional services included procurement support and project management for the fabrication and construction phases.

Hess Corporation- Penn State Project
UniversalPegasus provided engineering services to Hess Corporation including conceptual and detailed design for the installation of a single flowline, control system, installation of high-pressure boarding valve skid, and new structural support system to receive riser located in Garden Banks 216 in the Gulf of Mexico (1,440 ft. water depth). Design included flow assurance, topside facilities, design of flowline, controls, umbilical, PLET, riser, jumper, and the engineering of the chemical injection system. Scope included interface management with subcontractors and vendors for startup, commissioning and operations procedures, construction and installation overview, and commissioning. UniversalPegasus also provided permits, preparation of bidding packages, and QA/QC for all phases of the project.

PEMEX- Citam-A/Bolontiku-A Project
UniversalPegasus assisted Petroleos Mexicanos (PEMEX) with the selection of the most suitable structural configuration for 12 oil wells in an effort to minimize weight and installation costs for installation of drilling platforms in the coastal region of Tabasco Bay of Campeche, Mexico. The platforms were to be located in approximately 100 feet of water, and were to be designed for production test equipment, primary production separation, and a platform mounted drilling rig. The design included pile, structural, process facilities, electrical and instrumentation, telecommunications, controls and safety shutdown systems. UniversalPegasus also provided SCADA, auxiliary services design and a hazard and operability (HAZOP) study.

Shell- Compressor Module Relocation Project
UniversalPegasus provided project management, engineering, design, drafting and permit support for the removal of Shell’s existing compressor module from South Timbalier 301 Platform B. The scope of work included structural evaluation and modification, process piping isolation, tie-in and routing, and revisions to affected documents.

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Subsea Projects - International

Reliance Industries- KG-D6 Project
Acting as subcontractor to Bechtel Corporation, UniversalPegasus was engaged by Reliance to undertake the project services for the Offshore Gas Field in Block KG-DWN-98/3 in Krishna Godavari Basin, Bay of Bengal off the east coast of India. Work teams were deployed to India, the U.S. and Norway in addition to surveillance coverage at various supplier locations. The scope of work covered technical supervision of the engineering from FEED through detail design and surveillance during the procurement and construction phases of the project.

Cameroon- Taurt Field Project
UniversalPegasus provided technical support, expediting, procurement and project management services to Cameroon as part of the integrated team based in UniversalPegasus’ offices for the Taurt Field project. The project was located offshore Egypt, 7.5 miles northeast of the existing Ha’py platform in a water depth of 350 ft. Taurt was developed using subsea facilities and a dedicated pipeline, and chemical injection and controls umbilical routed to the West Harbour treatment plant.

HESS Corporation- Akom North GC19 Project
UniversalPegasus assisted Hess Corporation in developing a single well (AKOM North G-19) subsea tie-back system with an existing tension leg platform (TLP) in the OKUME oil field in Akom North G-19 Equatorial Guinea, West Africa (890 ft. water depth). UniversalPegasus work included FEED with detailed cost estimates and studies, detailed design, project management, preparation of requests for quotes (RFQ’s), and bid documents. UniversalPegasus also provided procurement of long lead material and equipment; inspection of material, equipment and fabrication; construction management and supervision; project commissioning support; and project closeout.

Talisman Energy- Burghley Development Project
UniversalPegasus performed the initial conceptual design and subsequent FEED for the Burghley subsea facilities. The Talisman Energy Burghley development located in Block 16/22 of UK North Sea is planned to be a single drill center with three to five subsea production wells connected to a subsea manifold center tied back via a subsea multiphase pipeline, gas lift pipeline and electro-hydraulic umbilical to one of two potential host facilities. Conceptual design of this fast track project initially centered on field development options for each component of the subsea facilities. Analysis of the subsea systems for both host options was developed to a level which allowed the client to progress into detailed design having considered a range of engineering solutions, selected to minimize commercial and technical risks and provide a sound basis for host selection and future development.

Talisman Energy- Tweedsmuir Project
UniversalPegasus provided detailed engineering design services for the Talisman subsea system at Piper Bravo, a multi-well subsea field located in Block 21/1a of central North Sea on the United Kingdom Continental Shelf (UKCS). Design services were performed for topsides to the unmanned surface vehicle (USV) structure, including production, gas lift and water injection tie-in spools, conductor riser system and field architecture, including umbilical routing.