HAYNESVILLE

REGIONAL OVERVIEW

AES DRILLING FLUIDS

HAYNESVILLE

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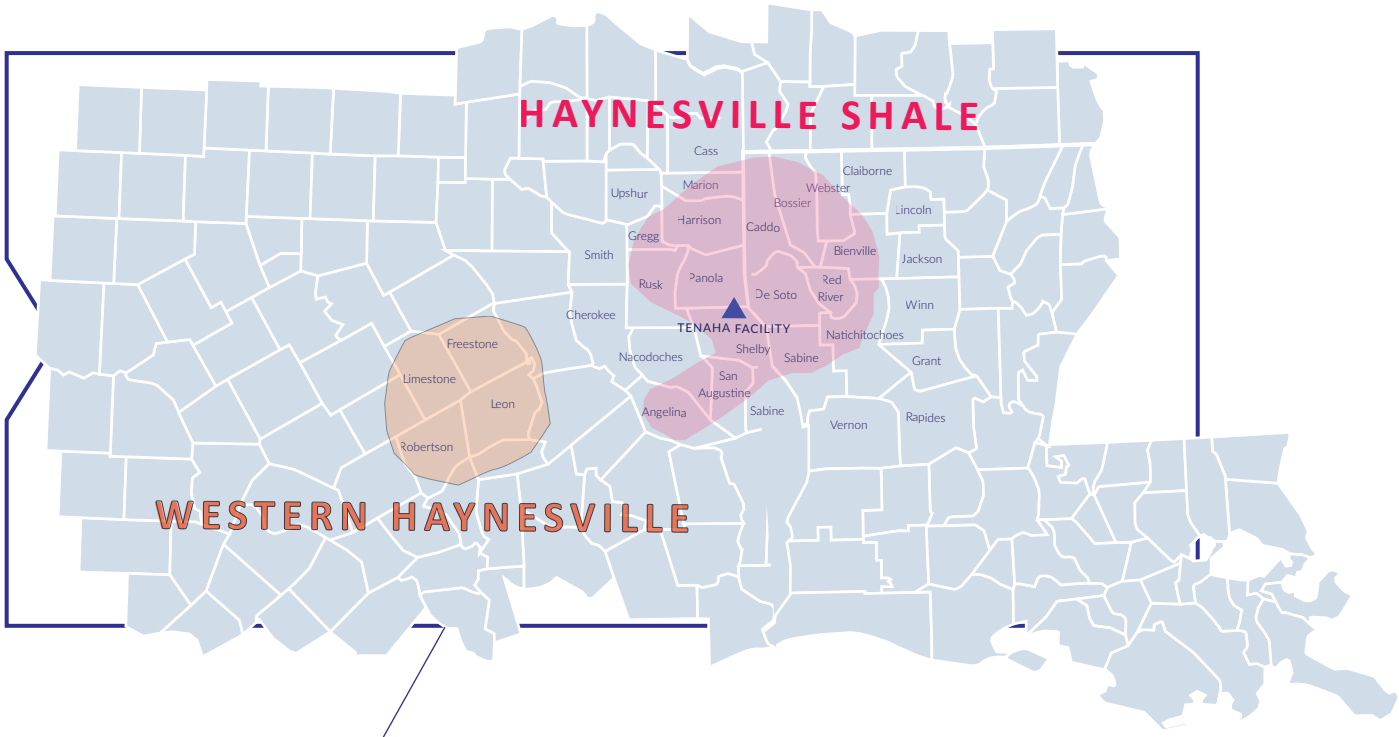
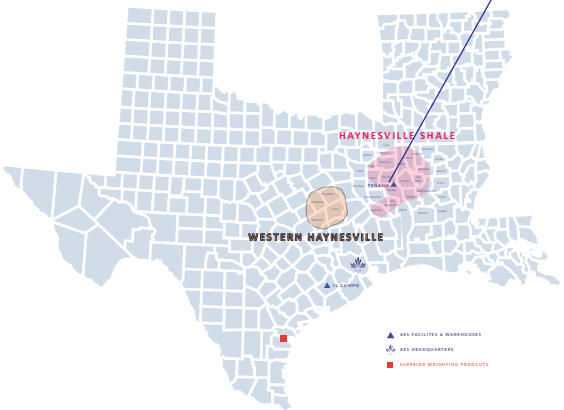
The Haynesville Shale, spanning East Texas and Northwest Louisiana, presents a unique set of drilling challenges that demand specialized fluid solutions. Conditions can vary dramatically across the play. Known for ultra-deep, high-pressure, high-temperature (HPHT) wells, the Haynesville formation—composed of limestone, anhydrite, shale, and sandstone—is notorious for wellbore instability and corrosive gas.

AES Drilling Fluids has a proven track record in this formidable basin. Whether supplying high-quality barite for high-pressure wells or deploying the INFERRA invert emulsion system—engineered to perform at bottomhole temperatures up to 450°F—AES understands the nuances of drilling in the Haynesville.





1250+ TONS
of barite capacity at our Tenaha Facility with the ability to service the growing demand in the region.

FULL-SERVICE FACILITIES
The Tenaha Facility operates on a 24-hour regional dispatch with a mud engineer on duty at all times to perform required mud checks in the on-site mud testing lab.

INFERRA
& TECHNICAL CAPABILITIES

The INFERRA invert emulsion drilling fluid system is specifically formulated for the construction and evaluation of wells facing bottomhole static temperatures (BHST) of 425°F and beyond. INFERRA delivers stable rheology and efficient drilling performance in thermally aggressive conditions like those in the Haynesville and Eagle Ford.

TECHNICAL CAPABILITIES

The Houston Support Service Center provides comprehensive services for customer projects, operations support, and new product development. It features a broad range of testing equipment, including sophisticated analytical tools to quickly respond to time-sensitive challenges specific to the Haynesville area.

The RIG FILE system tracks drilling fluid properties, volumes, product usage, and activity for daily reporting and overall well performance. Integrated with the AES sales portal, it reduces paperwork while preserving the accuracy of critical records.

Our expertise goes beyond people—it includes the power of offset data and how we use it to deliver better outcomes. The AES ANALYTICS† platform tracks key performance benchmarks to help plan, execute, and evaluate fluid strategies. Real-time insights enable fast, informed decisions when they matter most.

TENAHA FACILITY

990 HWY 84
Tenaha, TX 75974

The Tenaha Facility in Shelby County, Texas, strategically enhances AES Drilling Fluids' operational capabilities and efficiency in the Haynesville.

The facility features five 250-ton bulk storage tanks and a new 1,100-foot AES-dedicated rail spur with the capacity to accommodate 18 railcars.

With a total mud storage capacity of 7,250 barrels, this location positions AES Drilling Fluids for continued growth, ensuring reliable service delivery and operational excellence.

STORAGE

5 x 250-ton bulk storage tanks on a 108' x 18' concrete pad

16' x 16' concrete overhead loading area

Pad positioned along rail spur for maximum loading

50' x 100' pole barn

2-acre stabilized pad
1 x 500 bbl diesel tank
1 x 750 bbl diesel tank
1 x 500 bbl calcium chloride water tank
4 x 500 bbl Frac Tanks (2000 bbl)
1 x 750 bbl upright storage tanks

MIXING

1 x 400 bbl mixing pit
1 x 500 bbl mixing pit

EQUIPMENT

Mud lab (quality control)

Rail with capacity for 18 cars

EL CAMPO FACILITY

27088 US 59 Road
El Campo, TX 77437

The El Campo facility services the Gulf Coast with a full blending facility and chemical warehouse.

The El Campo facility in Wharton County serves the Gulf Coast as a proprietary blending and chemical warehousing hub. It offers 15,000 square feet of covered chemical storage and 14,000 square feet of warehouse space across two buildings.

The site maintains a comprehensive inventory of key drilling fluid additives, including bulk barite and lost circulation materials.

STORAGE

Primary Blending Facility
3x 260 bbl proprietary blenders
1x 130 bbl proprietary blender
20 x 500 bbl Raw material storage Tanks

Blending Barn
2 x 200 bbl proprietary blenders
3 x 300 bbl raw material storage tanks
400 bbl WBM Blending
500 bbl WBM Storage

Secondary Blending Facility
3x 300 bbl proprietary blenders

EQUIPMENT

Quality Control Lab
Tote Wash Bay
Heat Room for Raw Materials
Tractors (2)
Flat bed truck (2)
Utility Van Trailers (2)
Pneumatic Tanker (1)
Extended boom forklift (1)
Warehouse Forklifts (5)
Diesel Driven Centrifugal pumps (4)
Electric Pumps (5)
Electric Roper Pumps (3)
100,000 Watt Generator (1)
10,000 Watt Generator (1)

CORPUS CHRISTI **FACILITY**

4030 Rincon Road,
Corpus Christi, TX 78402

Superior Weighting Products, LLC specializes in high-quality chemicals, including drilling mud additives used in oil and gas exploration. The company is recognized for consistent service and dependable product quality.

The Corpus Christi facility is strategically designed for barite grinding, with operations focused on efficient production and daily delivery to rig sites. The plant supports an annual barite capacity of up to 415,000 short tons, with monthly output reaching up to 35,000 short tons. It can handle up to 50 truckloads and 10 railcars per day.

The site features three 750-ton finished product silos for high-volume storage, a robotic packaging system to boost efficiency, and an automated kiosk system that allows truck drivers to load in minutes without leaving their vehicles. An onsite rail system provides storage for up to 18 cars, with an additional 30-car capacity available nearby. An API-certified laboratory and dedicated quality control processes ensure every load meets performance and compliance standards.

As a sister company of AES Drilling Fluids, Superior Weighting Products leverages global supply chain expertise to efficiently source and deliver barite ore—reducing costs without sacrificing quality or reliability. The barite ore in this box represents just a small portion of the hundreds of thousands of tons moved from mine to mill to rig site through a coordinated logistics network of ocean freight, rail, and truck.

SUPERIOR WEIGHTING PRODUCTS

- Specializes in barite grinding to support daily rigsite deliveries
- Annual barite capacity: up to 415,000 short tons
- Monthly capacity: up to 35,000 short tons
- Daily output: up to 50 truckloads and 10 railcars
- Equipped with three 750-ton finished product silos
- Features a robotic packaging system for enhanced efficiency
- Automated kiosk system accommodates up to 18 cars, with additional 30-car storage available
- API-certified lab and dedicated quality control processes ensure consistent product standards

HOUSTON
SUPPORT SERVICE CENTER

AES Headquarters
Houston, TX

The Houston Support Service Center provides comprehensive services for customer projects, operations support, and new product development. It features a broad range of testing equipment, including sophisticated analytical tools to quickly respond to time-sensitive challenges.

Research & Product Development

Dedicated team of drilling fluids specialists developing new, fit-for-purpose products.
State-of-the-art instrumentation for advanced formulation, chemistry analysis, and performance benchmarking.
Rapid prototyping and field-ready solutions to meet evolving Haynesville Basin demands.

Technical Testing

Full API-compliant testing for water-, oil-, and synthetic-based drilling fluids.
Specialized equipment for extreme downhole simulation, including HPHT viscometer (30,000 psi / 600°F).
Advanced material characterization via SEM, FT-IR, XRD, XRF, GC-MS, and particle sizing.

Lab Services & QA/QC

Rigorous quality control for inbound raw materials and outbound products.
Comprehensive fluid performance evaluations to ensure consistency and compliance.
Troubleshooting and root-cause analysis for operational challenges.

Regional Training & Analytics Support

Hands-on training programs for field teams in drilling fluid properties, maintenance, and troubleshooting.
Real-time analytics support for data-driven decision making.
Collaboration with regional operations to optimize well performance and cost efficiency.

SYSTEMS
& PRODUCTS

By working directly with customers to address specific needs, AES Drilling Fluids delivers systems and products that align with unique operational demands—backed by unmatched service and technical expertise.

We manufacture many of our own products to ensure top-tier performance across a range of drilling environments. From conventional water-based systems to HPHT and synthetic invert emulsions, our product line is designed for flexibility and precision.

The AES VERT† diesel invert emulsion system provides a cost-effective option across various mud weights and temperature demands. As drilling technology evolves, we continue advancing our portfolio—pushing beyond standard non-aqueous systems to solutions like INFERRA, which offers unmatched thermal stability, even during extended static intervals.

With stable rheology and ultra-thin, durable filtercake, INFERRA enables efficient drilling, logging, casing, and cementing. Available in standard diesel (INFERRA) and synthetic oil (INFERRA S) formulations, the system addresses key HPHT challenges: lost circulation, high ECD, and stuck pipe. It also resists acid gas contamination and maintains integrity during long static periods.

INFERRA

INFERRA delivers high performance in both synthetic and diesel base fluids, offering optimal flexibility across various well environments. Key additives include:

- ABS MUL HT – High-temperature emulsifier for low HTHP fluid loss and emulsion stability
- FLR HT 450 – Filtration control agent rated for >450°F BHST
- EXPL 6600 – High-temp wetting agent to prevent water-wetting of solids; enhances rheology and emulsion
- EXPL 6300 – High-temp polymeric fluid loss reducer

INVERTRA

INVERTRA is an extreme pressure lubricant for invert emulsion drilling fluids, reducing torque and drag by 20% or more at low concentrations. It improves drilling efficiency in extended-reach, slimhole, and extreme pressure wells without affecting fluid rheology.

- Proven Performance: Cuts friction by 20%+, improving WOB and lowering torque.
- Versatile Use: Effective in extended-reach, slimhole, and high-pressure wells at 1–3% v/v.

MICRO STRENGTH†

MICRO STRENGTH is designed to enhance drilling performance by sealing losses and strengthening the wellbore. MICRO STRENGTH includes a special, sub-micron material to improve sealing and packing in microfractures, reducing fluid loss.

- Seals and strengthens the wellbore covering fractures up to ~250 microns
- Superior compressive strength allows material to seal and support openings as it enters a fracture, effectively strengthening the wellbore

AES ANALYTICS

DATA ANALYTICS SERVICE

AES ANALYTICS† gives operators a centralized platform to access and visualize drilling fluid performance. This includes trend analysis, benchmark comparisons, and rapid troubleshooting to support operational decisions. By combining historical offset data with real-time inputs, AES ANALYTICS† turns data into a competitive edge—delivering faster, more effective outcomes.

Description

A data analytics platform to optimize drilling fluid performance and minimize cost.

Easily observable data sets are presented on dashboards customized to customer needs.

Benefits

Rapid access to large data sets minimize time to make informed decisions.

Visualizations allow for quick trend analysis
Customization and continuous improvement regularly enhance available insight.

Applications

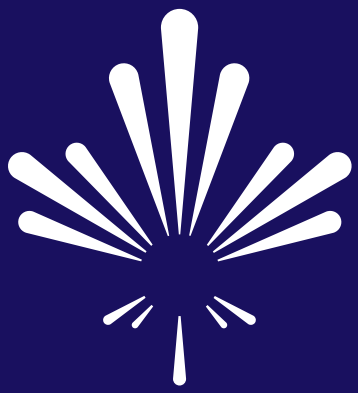
Well planning to identify risks and maximize insight from offset wells.

Tracking activity to key performance indicators.

Evaluating cost, product consumption, and overall performance by area, pad, rig, or other criteria.

QUESTIONS?

Reach out to your AES Account Manager or visit www.aesfluids.com for more information



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