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UNDERGROUND CONSTRUCTION TECHNOLOGY
THE UNDERGROUND UTILITIES EVENT | JANUARY 25-27, 2022 | FORT WORTH, TEXAS

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# GYRO TECHNOLOGY IN HDD DRILLING

## THE NEXT GENERATION!

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# ***PRESENTER***

## *Justin J Stovall*

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# INTRODUCING

# FUSION GYRO

## A HYBRID NAVIGATIONAL TOOL

*Patent Pending*

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# FUSION GYRO

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# FUSION GYRO

## DEVELOPMENT - 2018 TO 2021

Gyro - "Piggy-Back" with Tensor & TT.

Design Change - Gyro Plus High Res Mags

Design Change - Downhole Battery Charging

Design Change - Anulus & DP pressure

## PERFORMACE

Gyro - Always produced accurate results

Software - A learning curve

Operational Techniques - A learning curve

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FUSION GYRO

THE HYBRID SOLUTION

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# FUSION GYRO

## SPECIFICATIONS

***ACCURACY - 1FT PER 1000FT***

***PROBE SIZE - 2 INCH OD, 49 INCH LENGTH***

***PROBE WEIGHT - 18 LBS***

# ***PRESENT HDD PRACTICES***

- ***Steer/Navigate using Tru-Track/Grid***
- ***Mag Ranging Techniques for Intersects***
- ***Call for Gyro when Grid not possible***
- ***Add Module when Pressure is required***

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## FUTURE PRACTICES WITH HYBRID TOOL

- Gyro: On-Board the Hybrid Tool
- Mags: On-Board the Hybrid Tool
- Pressure: On-Board the Hybrid Tool

## EFFICIENCY/COST REDUCTION POTENTIAL

- Tracking/Steering with Gyro
- Reduced requirment for Tru-Track and Grids
- Your Surveyor is the Gyro/Steering Engineer
- Use your own Collars and Pressure Sub

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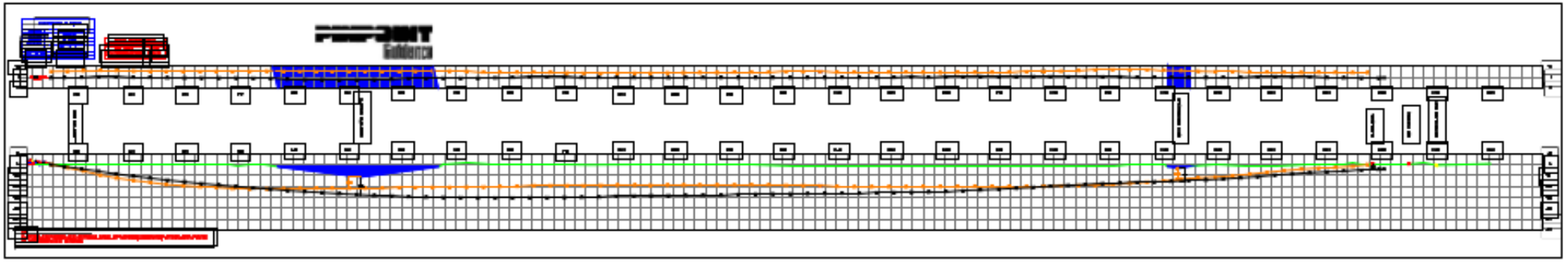
# NUECES RIVER, ODEM TEXAS

## Horizontal Distance - 2451.09 Ft.



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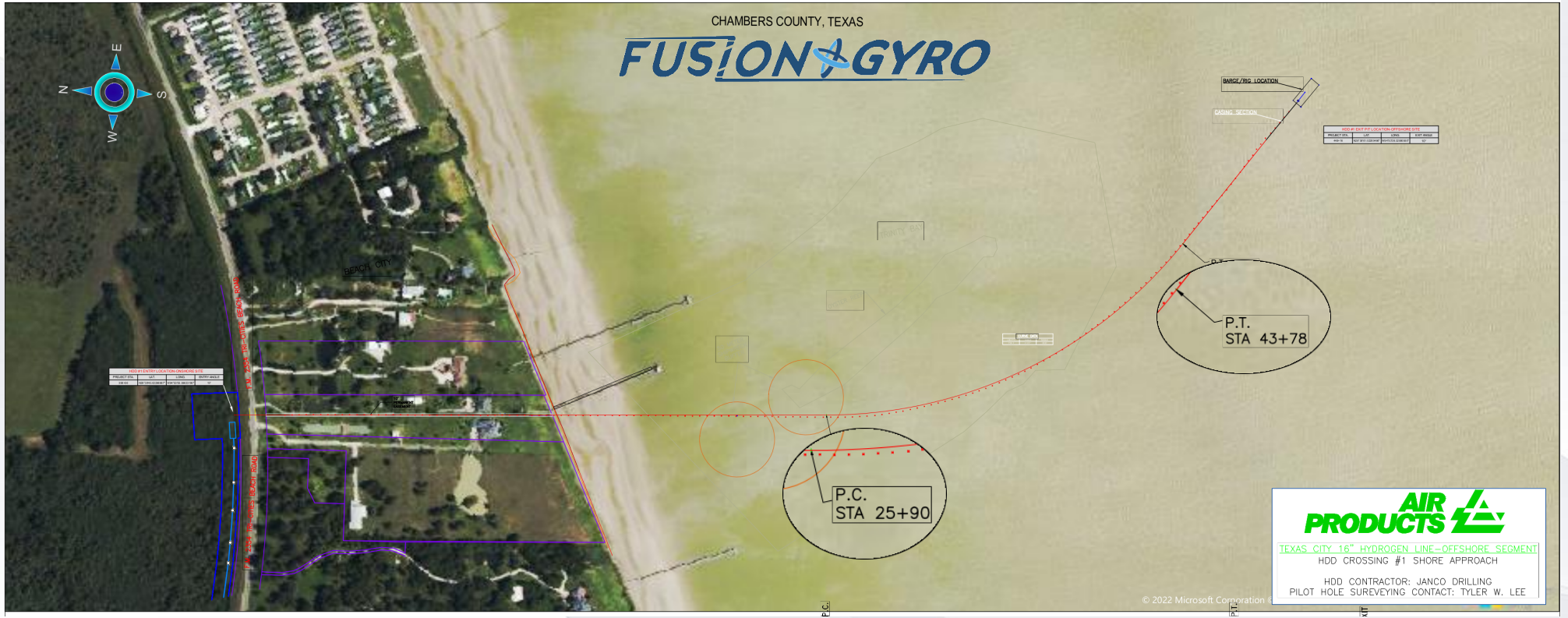
# TRINITY BAY, TX - JANUARY 2022
# 5175 Ft - 53° Turn



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## BREAKTHROUGH TECHNOLOGY

***Gyro Tool with the functionality of a Steering Tool.***
***Gyro Tool any Surveyor can operate.***
***Transportability and versitility is a game changer!***

## D&S BUSINESS STRATEGY

***Offer on lease basis, long and short term.***

## LEASING BENEFITS BOTH PARTIES

***Customers return tools when no longer needed.***
***D&S provides training/support.***
***D&S responsible for normal repair****
***D&S's inventory utilization is maximized.***
***D&S continues development/improvement of tools.***

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# ON-GOING SUPPORT

## Development & Manufacturing Lab

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# ***QUESTIONS TO ASK?***

***Contact Justin Stovall***

***Phone: 321.432.2768***