

Infrastructure Networks (iNet)

Case Study: 5G Connectivity in the Permian

Infrastructure Networks (iNet) owns and operates a private licensed 4G/5G LTE network across the Permian, Bakken, Eagle Ford and Scoop/Stack. With our recent upgrade to be 5G-ready, iNet is seeking pilots to bring 5G connectivity to remote wellpads in the Permian Basin.

Contact iNet Today

Call: (832) 598-6600

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Visit: www.inetLTE.com

We built our remote communications network for the rigorous demands of the oil and gas industry. Now we're offering 5G across the pad.

5G is the fifth generation wireless technology with two major areas of focus. The first is increasing bandwidth and data throughput speeds. This will be accomplished with the use of millimeter wave radio frequency spectrum which offers the capacity to deliver over 1 Gbps speeds to mobile devices but only over a short distance of less than a mile. These services will first become available in dense urban settings and over the next few years will make its way into specialized industrial applications where very high bandwidth is required. **iNet sees a future for 5G on the well-pad during the drilling and completions phases.**

THE NEED FOR 5G

As advanced as the oil and gas industry is today - it's not when it comes to realizing the true benefits from the "Digital Oilfield". The industry struggles with geographic, site specific, commercial and technical challenges that disrupt connectivity and prevent



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operators from getting important data to and from remote field locations. To solve these challenges, operators need to create seamless pad-wide broadband connectivity, which can be realized with 5G and bring the following benefits:

- 5G IIoT provides low cost, low power wireless connectivity to the sensor level. This will revolutionize the way “Things” interact with each of us and with how Things interact with each other.
- IIoT Benefits: 5G includes NB-IoT. Low power/low cost radio devices that can be deployed down to the sensor level and massively scaled.

5G FOR INDUSTRIAL EFFICIENCY

5G IIoT is focused on providing very low cost, low power wireless connectivity to the sensor level. This will revolutionize the way “Things” interact with each of us and with how Things interact with each other. This increased interaction and visibility will allow increases in safety, productivity and quality of life by allowing the automation and monitoring of many of today’s manual and hazardous processes.

IIoT will make its way onto the well-pad by extending asset tracking down to the level of material consumption/location tracking, health and safety wearables to improve worker safety and location information on-site.

INET sees a future for 5G on the well pad during the drilling and completions phases: gigabit speeds at the pad supporting integrated operations with specialized, real-time applications.

Benefits of IIoT with iNet

- Increased Interaction and Field Visibility
- Reduced Costs and Increased Return
- Latest Plug-and-Play Devices
- Improved Safety and Security
- Customized Solution Package
- 24/7 Service and Support
- 130,000+ square miles of coverage

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