

OIL PATCH HOTLINE

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INSIDE THE PATCH

by Dennis Blank, Editor



Leave it to the oil and gas industry to initiate community involvement. **Energy Outreach Williston** is a coalition of six companies in the Williston area, Baker Hughes, Halliburton, Nabors, Oasis Petroleum, Schlumberger and Statoil to become more involved in the community. **Most recently the organization contributed to new park and playground equipment.** Kelley Rankin, who is coordinating those efforts, is on the board of directors of Community Builders and her husband, Russell Rankin, regional manager for Statoil, serves on a half dozen boards and is on the board of directors of the ND Petroleum Council. **Kelley says they want oil industry employees to volunteer and get involved in community projects and organizations.** It is not only financial donations that are needed, but the volunteer

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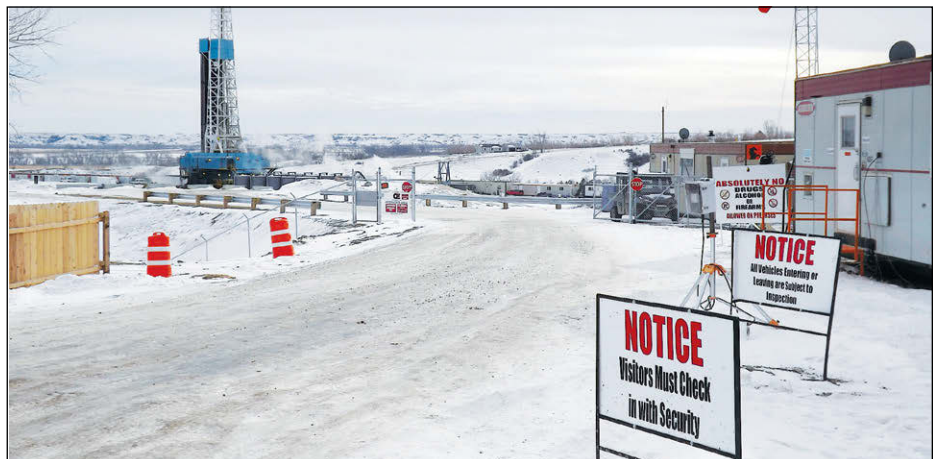
“Show Piece” Electric Rig Drilling

As the largest operator in the Williston Basin, Continental Resources has a reputation for a lot of firsts in drilling and production.

Now they are the first operator to use electricity to power Cyclone Rig #2 on a unique multi-pad location, Atlanta 1-6H, just off Hwy. 85 on the western edge of Williston, ND. The project is also unique in other ways.

Working with Mountrail Williams Electric, workers installed an overhead dedicated loop line from a nearby substation. Using an average

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Continental Resources is placing a heavy emphasis on security with a gate guard, video surveillance cameras and a wire fence around its Atlanta 1-6H where Cyclone #2, powered by electricity, will be drilling 14 wells for the next nine months on the western edge of Williston near the Missouri River. (Photo by Denis Smith)

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Continental Wraps Tight Security on Electric Rig

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1.5 megawatts a day, that line will power that rig for the next 270 days for the drilling of 14 horizontal wells in sunburst pattern under the Missouri River.

Continental estimates it is saving \$2,000 a day being on the electrical power grid instead of diesel fuel-powered engines.

"This is a show piece. We were very interested in this project and watching it go," said Dale Haugen, general manager of Mountrail-Williams. "I feel a lot more comfortable putting it out on new lines."

Continental is using a transformer supplied by Electric Drilling Technologies of Dallas to feed electricity to the rig motors and powering other ancillary services including the permanent housing for the toolpusher, company hand, and geologist.

"We are tracking the power we are using and at different times of the day," said Kyle Davis, a drilling engineer for Continental.

The system reduces noise and that is an important aspect because the location is close to businesses and homes.

The operator is prepared to fall back on its diesel generators in case of a power failure, according to Davis.

"We are hoping to improve on our operating costs," said Alan McNally with Continental. Eliminating diesel fuel, which runs about 1500 to 2,000 gallons a day, is resulting in lower emissions.

The 20-acre location is completely fenced and employs offsite security and surveillance cameras. Arctic supplies 24/7 hot meal service to the permanent employees on location.

Every person coming on the location is checked in and given a safety orientation. "It is important for us to know who is coming on and for what reason," Davis said.

The high performing Cyclone "walking rig" is being used for "batch drilling" of four holes and then will be moved to the next set.

The location is also unique because more than 360,000 cubic yards of dirt were used to build it, compared to 6,000 yards for

a regular pad. Water pipelines were brought into the location, reducing truck traffic and produced oil and gas will also be fed into an internal pipeline system.



This is an aerial view of the Continental Resources 20-acre drill pad where an all electric drilling program is being used for the 14 wells on the outskirts of Williston near the Missouri River.

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A collage of various safety and directional signs. The signs include "ATTENTION ENTERING CAUTION AREA", "COMPLIANCE WITH POLICIES & PROCEDURES IS MANDATORY", "CAMERON", "NO FIELD TRAFFIC", "HARD HAT, SAFETY GLASS AND STEEL TOE SHOES ARE TO BE WORN IN THE SHOP AND NO EXCEPTIONS", "FORK LIFT TRUCKS", "NO TRESPASSING", "AUTHORIZED PERSONNEL ONLY", "CANCELL SURVEILLANCE", "NO SHOWING PHOTOGRAPHS IN CASE OF EMERGENCY", and "NO DRUGS".

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A photograph of a yellow bulldozer working on a dirt pad. The bulldozer is in the foreground, pushing a large pile of dirt. In the background, there are other pieces of construction equipment and a drilling rig.

EDT Touts Cost Savings in Texas

Electric Drilling Technologies of Dallas, which is providing the transformer unit to Continental Resources for the first electric rig drilling program in the Williston Basin, said the net savings on a single well in the Barnett Shale near Arlington where its unit was used saved \$42,855.

The transformer was used because the area was near a car manufacturing plant and housing. Nearby utility lines made installation and hookup easy to accomplish.

Over the 15 days of drilling time, the total cost for drilling was \$35,895, compared to using diesel fuel, which would have cost \$78,750 over the same time period, the company said. Overall, 15 wells were drilled on the location resulting in a total savings of \$642,825 for using electricity.



EDT feeds electricity into the Continental rig.

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