

## Jupiter Resources

### COMPANY BACKGROUND

Established in 2014, Jupiter Resources (Jupiter) is an independent Calgary-based energy company with an operations office in Grande Cache, Alberta. The company is focused on the acquisition, development and production of unconventional liquids-rich natural gas properties in the Western Canadian Sedimentary Basin. Jupiter Resources has operations in Wolf Creek, Red Rock, Kakwa and Resthaven areas, with an exceptional asset base that yields many of the top 20 highest producing natural gas wells in Canada.



### IMPLEMENTING AN INTERNAL PIPELINE INTEGRITY PROGRAM

For the first two years after starting up operations, Jupiter used a 3rd party company for oversight and management of their pipelines with all data routed and housed externally. However, as their integrity program became more established, Jupiter required quicker access to larger amounts of data. In addition, their data was stored in multiple locations and in a variety of formats when it arrived. This complicated and significantly slowed down their pipeline risk assessments as the data had to be converted into a useable format before overlaying the data sets.

In February 2016, Jupiter made the decision to take their pipeline integrity risk and maintenance programs in-house and implement a trusted and reliable system to manage all of their pipeline assets. An in-depth research and review process was rolled out resulting in the shortlisting of several service providers in the market.

Being a lean company, Jupiter wanted to implement a system that was user friendly, quick to set up, could be maintained internally, and easily scaled as the company grew. In addition, it was critical to have a system that would be integrated as part of their entire operations and provide trusted, repeatable results multiple times per year when they do their quarterly analysis.

Like most operators, Jupiter collects vast amounts of data. The importance of having a system that provided timely access to current information, as well as agile and easy to manipulate as risk profiles changed, was a critical need to support their companywide approach in data driven decision making.

### CLIENT

Jupiter Resources

### SOLUTION

Dynamic Risk's Explorer

### BENEFITS

- Quick quantitative risk assessments leveraging accurate and up-to-date data
- Access to current and accurate information with a seamless communication line between the field and the office

“Dynamic Risk aimed to change the industry impression that pipeline integrity **wasn't just a cost of doing business**. It was ... [an] asset and should be treated as such.”

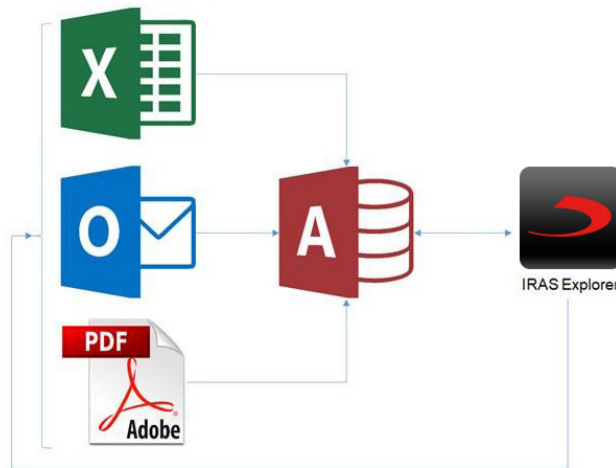
## PARTNERING WITH DYNAMIC RISK ASSESSMENT SYSTEMS

In March 2016, Jupiter chose Dynamic Risk's software platform, Explorer, to develop and manage their pipeline integrity program. There were several key factors that set Dynamic Risk apart from the competition beginning with a precisely aligned philosophy in managing pipeline risk.

"When I first met with Dynamic Risk, one of the most impactful and lasting statements I took away from our meeting was that Dynamic Risk aimed to change the industry impression that pipeline integrity wasn't just a cost of doing business. It was a money making, or at the minimum money saving, asset and should be treated as such." comments Paul Toews, Pipeline Integrity Engineer (EIT) at Jupiter Resources. "Pipelines are how our production gets to market and should be viewed as a vital asset to any company. If a well goes down we lose some production, but if a pipeline goes down we can lose most or all of the production."

## IMPLEMENTATION

Jupiter's in-house pipeline integrity program was built in parallel with implementing Explorer into their organization's workflow. To begin, Jupiter first had to compile all data and information from various sources. Their existing data and information was stored in multiple locations and in multiple formats including; excel spreadsheets, PDF's, scanned drawings from the field and email documentation. There was no existing structure and consistency between teams in how information and data was maintained. Jupiter lacked a consistent process of updating records and documentation.



Next Jupiter had to compile their different data sources starting with some basic shape files exported from their GIS system to get things up and running. Both Jupiter and Dynamic Risk pulled each of their own data sets to cross reference accuracy and consistency and to ensure they were not missing any pertinent information such as licenses. The results proved accurate and within 30 days, Jupiter had their PL100 Risk Ranking which helped them assess what data they should be focused on as highest priority while Dynamic Risk was focused on the overall risk from a macro perspective.

Jupiter then moved to the next phase to compile all disparate source files and make them as readable as possible. Once the data was compiled, Dynamic Risk uploaded it into Explorer and reviewed for quality control before handing it back to Jupiter to for final review of accuracy and completeness of the data loaded.

Throughout the entire process, Dynamic Risk provided strategic support and advice to guide Jupiter with a quick, efficient and successful implementation roll-out. There were a lot of manual checks and balances to take into consideration and Dynamic Risk worked side by side with Jupiter to execute.

### WHY PARTNER WITH DYNAMIC RISK?

Dynamic Risk's technology and consulting services optimize risk-informed decision making to manage risk through an asset's entire life cycle. Our software models pipeline systems to proactively determine where they are most likely to fail and the corresponding consequences of unintended releases. From gathering systems, midstream pipelines, transmission pipelines, and distribution networks, we have software applications and in-house expertise to provide complete pipeline risk assessment, data management and compliance reporting.

## OUTCOME

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The implementation of Jupiter's pipeline integrity management program went live within 6 months from project kick-off and was up and running in the fall of 2016. Over the past two years, the program has been deemed a major success from Jupiter's Executive Leadership Team with the continual commitment to invest in their pipeline integrity program.

The new program now provides Jupiter the ability to do quick quantitative risk assessments leveraging accurate and up-to-date data to facilitate confidence in decision making. The agility of Explorer in adding numerous amounts of historical data on-demand allows them to see how risk changes over a time period quickly and supports multiple scenario modelling. Without Explorer, the ability to run risk profiles on 450km of pipeline would not likely be possible without dedicated staff and additional resources.

Jupiter runs their risk reports on a quarterly basis and having access to current and accurate information with a seamless communication line between the field and the office has saved Jupiter countless hours in compiling, validating and reporting on pipeline risk assessments. The buy-in from Jupiter's field staff has significantly improved as well because they are aware of what goes into the risk profile and are able to see the effects that their daily work provides.

Furthermore, Explorer's user-friendly platform enables Jupiter to train new hires and get them up and running quickly. This benefit of Explorer sets up the company to successfully scale when necessary and alleviates the challenge if Jupiter doubles in size, they don't have to double the workforce.

Comments Paul Toews, "Being a relatively new company, I think it is important to accept that we are an upstream production company, we are not experts at determining pipeline risk. In order to succeed and position Jupiter well for future growth, we need to focus on what we do best in producing wells and partner with experts in pipeline risk assessment and mitigation."

Jupiter has been very pleased with the continued partnership with Dynamic Risk and is looking forward to "keep on, keepin on" into 2019 and beyond.

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