



GX Technology Selected for Major Onshore Imaging Project

Largest Integrated Full-wave Processing Project in Company History

HOUSTON & BEIJING – July 6 – GX Technology Corporation (GXT), a leading seismic imaging services provider and a subsidiary of Input/Output, Inc. (NYSE: IO), announced today that it has been awarded the largest full-wave imaging project in the company's history. GXT was selected by Southwest Branch Company, an operating subsidiary of the Chinese energy and petrochemical firm Sinopec (NYSE: SNP), for a comprehensive interpretive imaging program at the largest gas field in western Sichuan Province, China. GXT was awarded the contract to identify high-potential, drillable prospects based on seismic data that was previously acquired using I/O's VectorSeis® digital full-wave sensors.

Bob Peebler, President and CEO of I/O, commented on the contract award, "This is an excellent example of our full-wave solution strategy coming to life. We were involved in this project from the beginning, helping to design the survey and to select the technologies that would be needed to properly image the numerous fractured gas reservoirs in the area. The data was acquired using I/O's System Four™ outfitted with VectorSeis. At times during the survey, the contractor had nearly 20,000 live seismic channels in operation. This provided the sampling density needed to properly illuminate the reservoir. There is tremendous excitement throughout our company about what insights we will be able to provide to our client using this high density, full-wave data set."

GXT was awarded the processing contract in a competitive tender against other seismic imaging companies. A full suite of processing steps will be applied to resolve subtle properties within the reservoir zones, including mapping fracture density which is believed to correlate with well productivity. In addition to applying its advanced noise attenuation algorithms to extract broadband, high-resolution P-wave data, GXT will image the converted (shear) waves, map sub-surface anisotropy using AZIM™, and analyze shear wave splitting in the reservoirs to determine fracture orientation and intensity.

Xu Xiangrong, President of Southwest Branch Company at Sinopec, added, "We are convinced of the benefits of full-wave imaging in this area. Several years ago, we conducted a pilot test which showed multicomponent seismic data would be useful in characterizing fractured gas reservoirs in Sichuan. This gave us the confidence to undertake a full-scale acquisition program. The raw data looks promising. GX Technology demonstrated that they had the necessary capabilities to deliver against the imaging objectives we had set. In order to meet its increasing

GXT获得公司历史上最大的陆上全波场的成像项目

休斯敦，北京-7月6日-GX Technology Corporation (GXT)，业界领先的地震成像服务商，Input/Output, Inc. (NYSE: IO)的子公司，今天宣布它获得了公司历史上最大的全波场成像服务项目。GXT由中石化西南分公司，Sinopec (NYSE: SNP)的子公司选中，全面参与中国四川省西部最大气田的综合解释成像工作。该项目的地震资料采集采用I/O公司的VectorSeis®数字全波场检波器，GXT将根据地震资料的处理和解释来确定该区块潜在的可钻探前景。

I/O公司总裁兼首席执行官Bob Peebler积极评论该合同的成功获得，“这极好的例子，证明了我们全波场解决方案战略已经开始走上了舞台。我们从一开始就参与了这个项目，协助设计勘探，选择适合该地区裂缝性气藏的技术方案。SINOPEC通过使用VectorSeis数字检波器的I/O系统四设备进行数据采集，地震数据记录每炮将近20,000地震道，这样采样密度才能满足储层成像的要求。全公司上下受到了极大的鼓舞，因为我们能够满足用户对高密度、数字全波场数据采集的要求了。”

GXT通过与其它地震成像公司的公开竞标赢得了该处理合同。我们将应用全套的处理流程来解决储层之中细微地质特征体，包括裂缝密度(裂缝密度和井产能有着密切联系)。除了应用先进的去噪技术来提取宽带、高分辨率纵波数据，GXT将对转换(横)波进行成像，应用AZIM™进行各向异性处理，并通过分析横波在油气藏中的分裂确定裂缝的方向和强度。

西南分公司经理徐向荣认为：“我们相信全波场成像技术在此区块的优势。几年前，我们曾经试验过，试验显示多分量地震数据对于描述四川地区裂缝性油气储层非常有用。这就给了我们实施全波场采集计划的信心。原始地震资料看来很有希望。GXT公司证明了他们有能力来实现我们所确立的成像目标。为了满足日益增长的能源需求，中国乐于



energy needs, China is committed to deploying state-of-the-art technology. The I/O family of companies has the type of cutting-edge toolkit, the experienced personnel, and the collaborative approach we require. I look forward to our ongoing cooperation on this imaging program and on other opportunities that may emerge in the future.”

As part of this project, GXT has also been requested to undertake advanced geophysical and reservoir analyses that build upon the acquired seismic data, such as determining reservoir porosity and permeability, evaluating gas saturation, and mapping sedimentary facies and sequence stratigraphy. The integrated seismic data sets will ultimately be used to select new well locations and to identify other exploitable targets throughout the basin. Initial imaging work will begin immediately, with final results of this processing and reservoir characterization project expected to be delivered in the first half of 2007.

About GX Technology

GX Technology (GXT), a subsidiary of I/O, is a leading provider of Image-Driven™ seismic solutions. Oil & gas companies engage GXT to produce high fidelity sub-surface images that reduce the risk and cost of finding and developing hydrocarbons both onshore and offshore. GXT solutions include start-to-finish seismic imaging programs, seismic data conditioning, time processing, PreSTM and PreSDM, full-wave imaging, and geophysical and reservoir analysis services. GXT also provides software and services for seismic acquisition planning, survey design, and modeling. GXT is a Houston-based company that operates regional imaging centers in Denver, London, Calgary, Aberdeen, Caracas, Port-of-Spain, Luanda, and Port Harcourt.

About I/O

I/O is a leading, technology-focused seismic solutions provider. The company provides cutting-edge seismic acquisition equipment, software, and planning and seismic processing services to the global oil and gas industry. I/O's technologies are applied in both land and marine environments, in traditional 2D and 3D surveys, and in rapidly growing areas like time-lapse (4D) reservoir monitoring and full-wave imaging. Headquartered in Houston, Texas, I/O has regional offices in Canada, Latin America, Europe, China, Russia, Africa and the Middle East. Additional information is available at www.i-o.com.

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采用最先进的技术。I/O大家庭中有这样先进的技术、经验丰富的技术人员和我们需要的合作资源。我期待我们正在开展的成像项目的合作，以及将来出现的其他合作机会。”

作为这个项目的一部分，GXT被要求根据获得的地震数据进行先进的地球物理和储层分析，例如确定油气藏的孔隙度和渗透性，评估气的饱和度，描绘沉积相和层序地层。综合的地震资料成果将被用于确定新的井位，和确定整个盆地其他可开发的目的层。项目的启动工作将立刻开始，最终的处理和储层特性解释将于2007年的上半年完成。

关于GXT公司

GX Technology (GXT), I/O的一个子公司，是业内领先的提供Image-Driven™地震方案的服务商。油气公司选择GXT完成高保真度的陆地和海上地下成像，从而降低发现和开发油气资源的风险。GXT的解决方案包括地震采集设计、地震数据调节、时间处理、叠前时间偏移和叠前深度偏移、全波场成像，以及地球物理和储层分析完整的服务。GXT也为地震采集计划，勘探设计和模型提供软件和服务。GXT总部在休斯敦，同时在其他国家和地区设有处理中心，如Denver, London, Calgary, Aberdeen, Caracas, Port-of-Spain, Luanda, 和Port Harcourt。

关于I/O公司

I/O是一家业界领先的地震技术解决方案供应商。为全球的油气产业提供先进的地震采集设备、软件、设计和地震处理服务。I/O的技术广泛应用于陆地和海上，传统的二维和三维勘探，以及正在迅速崛起的领域，如时移（4D）储层监控和全波场成像等。总部设在德克萨斯州休斯敦。同时，I/O在加拿大、拉美、欧洲、中国、俄罗斯、非洲和中东设有地区办公室。其它信息，欢迎访问 www.i-o.com。

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