



**Roth Capital Partners
22nd Annual OC Growth
Stock Conference
March 2010**

**Generating
Prospects
for the
Oil and Gas
Industry**

TSXV: "SFD" OTCBB: "NSFDF"

www.nxtenergy.com

Forward-looking statements

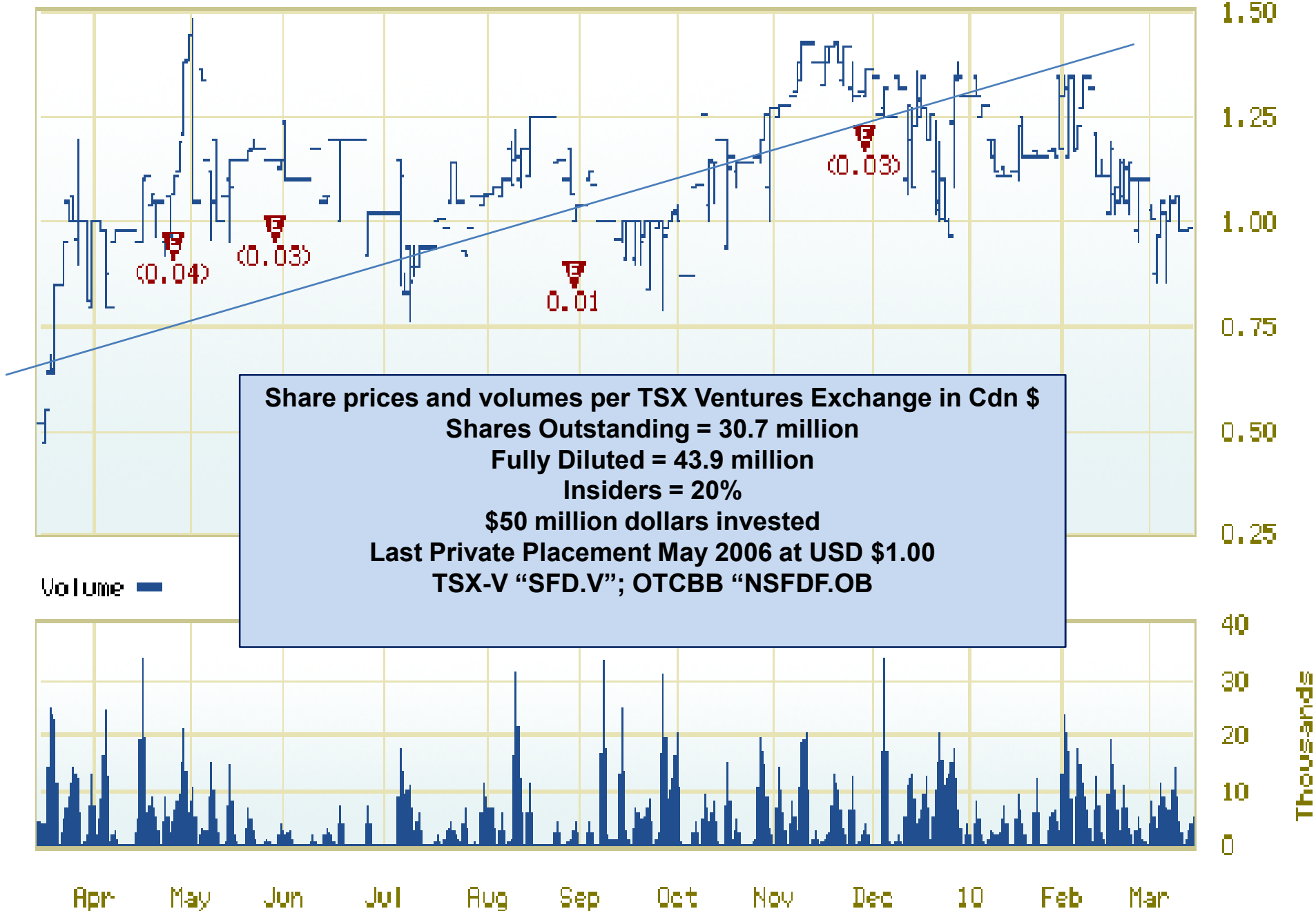
The information contained in this document may include forward-looking statements including opinions, assumptions, estimates and expectations of future prospects for the Company and financial projections. When used in this document, the words "anticipate," "believe," "estimate," "expect," "intend," "may," "project," "plan," "will," "should" and similar expressions are intended to be among the statements that identify forward-looking statements. Forward-looking statements are subject to a wide range of risks and uncertainties, and although the Company believes that the expectations represented by such forward-looking statements are reasonable; there can be no assurance that such expectations will be realized. Any number of important factors could cause actual results to differ materially from those in the forward-looking statements including, but not limited to, the volatility of oil and gas prices, the ability to implement corporate strategies, the state of capital markets, the ability to obtain financing, changes in the oil and gas industry, operating risks, reserve estimates, changes in general economic conditions and other factors more fully described from time to time in the reports and filings made by the Company with securities regulatory authorities.

Neither the TSX-Venture nor NASDAQ OTCBB Exchanges accept responsibility for the adequacy or accuracy of any information contained in this document.

SFD Daily

Earnings Up  Down  Dividends  Splits 

3/12/10



NXT provides airborne geophysical solutions to the Oil & Gas Industry

- Developed SFD[®], a proprietary disruptive nanotechnology
 - ***fundamentally changes how companies explore for oil and gas***
- Generating revenue from a growing client base
- Focused on Colombia; now positioned for International growth



SFD[®] Survey Equipment



Citation 560 Survey Aircraft



SFD[®] Signal Interpretation
Theatre

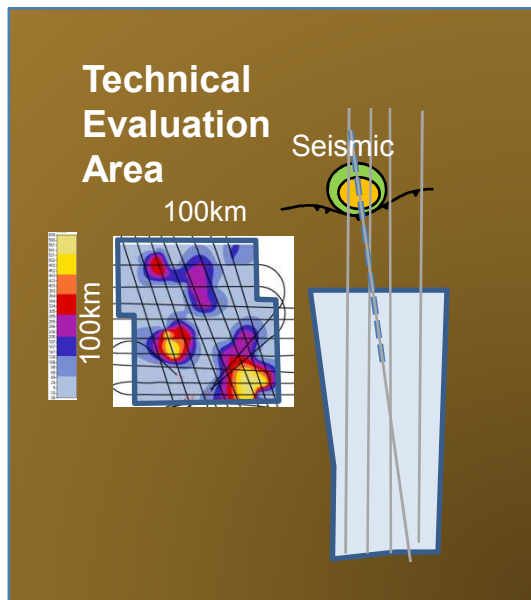


NXT solutions for today's exploration challenges

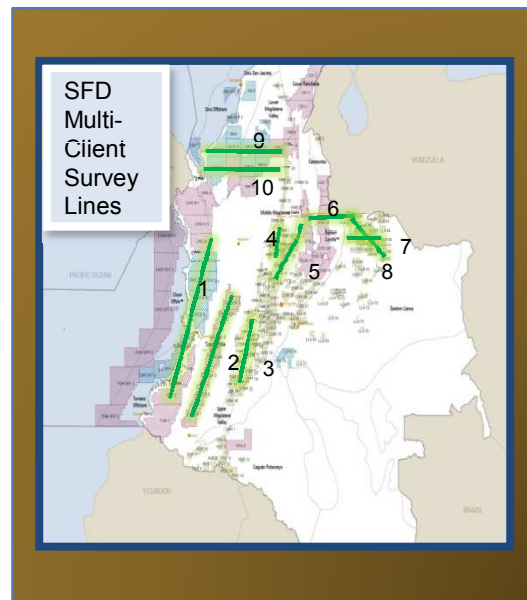
- All the easy oil has been found
- Next oil discoveries will be in hard to reach areas
- SFD enables the search for these new discoveries in:
 - Environmentally and community sensitive areas
 - Areas with ground based security concerns and
 - Harsh terrain that is difficult or cost prohibitive to evaluate
(Rain forests, dunes, tundra, water land transition zone, swamps, deep water etc.)

SFD[®] Solutions

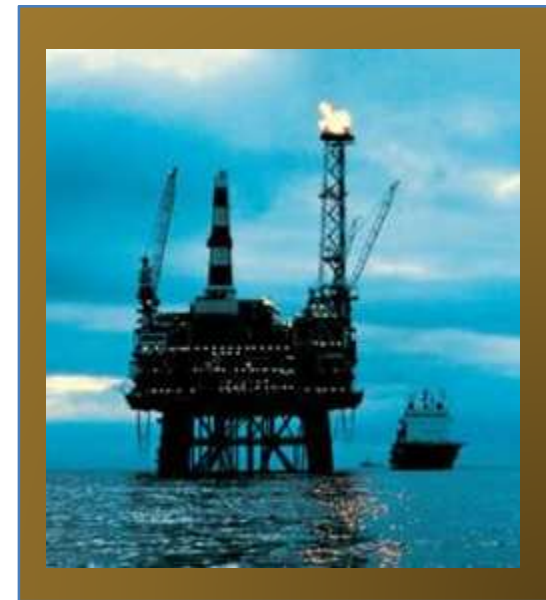
Frontier



Multi-Client

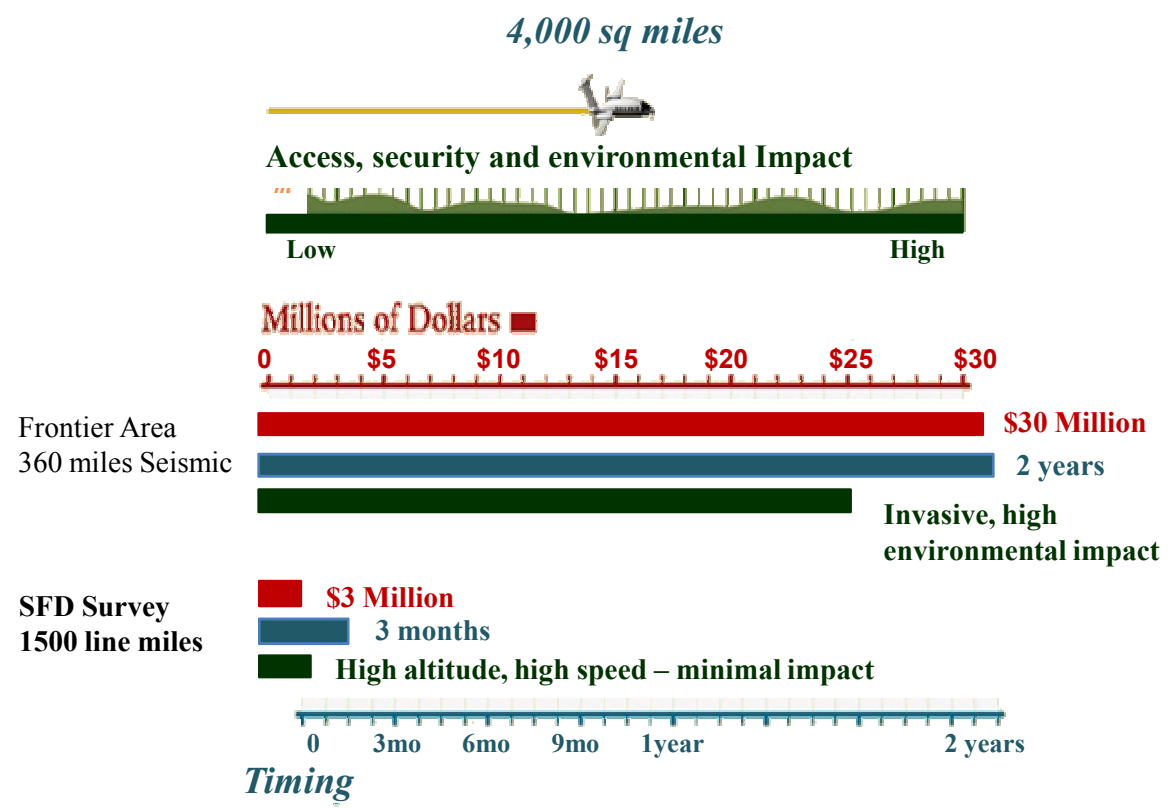


Prospect Verification



Comparison of Geophysical Methods

SFD Cost, Time and Access Advantages



SFD benefits for large area on-shore surveys

- No environmental impact
- ~1/10 cost and time of seismic
- Minimal security concerns
 - 10,000 ft above the ground
 - 250 MPH

NXT's Experience



Pre 2009

- Acquired over 400,000 line km of SFD®
- Largest client success
 - Pengrowth Energy Trust

Since arriving in Colombian April 2009 NXT has:

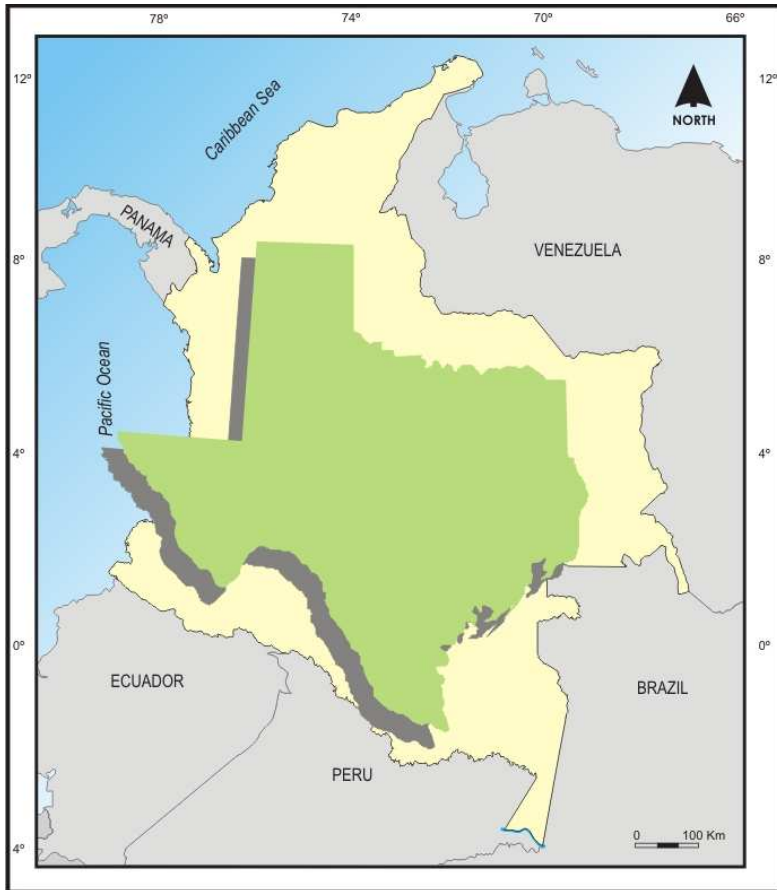
- Earned nearly \$4MM in revenue
- Client references; compelling success stories
- Conducted surveys for 3 clients; all industry leading players in Colombia
- Pacific Rubiales, Hocol and Ecopetrol (hold 42% of large area blocks in Colombia)



Colombia



Why is NXT focused on Colombia?



Compelling SFD® advantages

Large unexplored blocks with

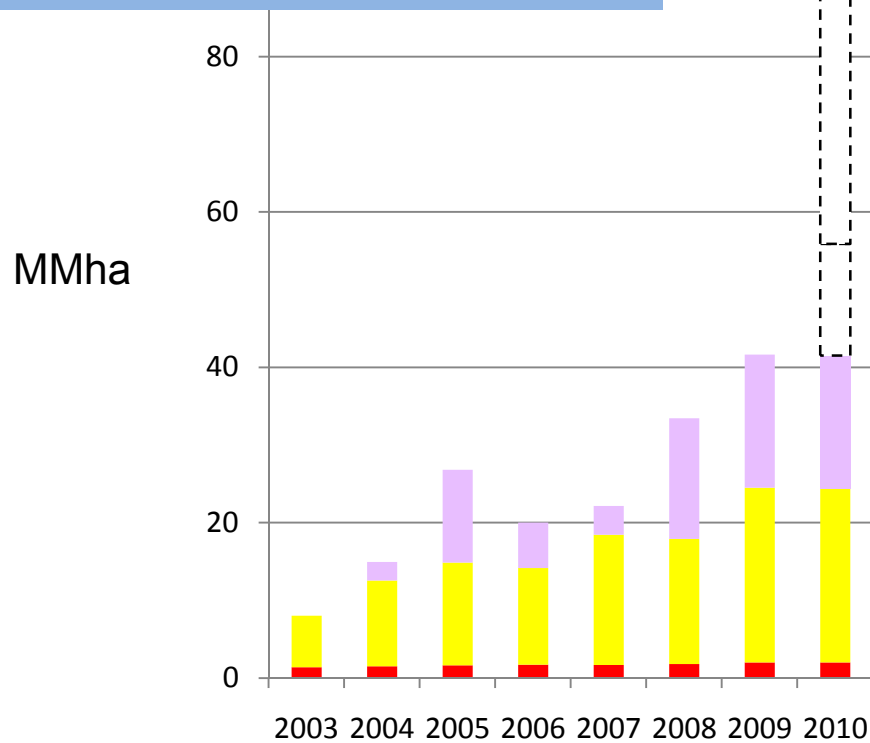
- Lots of industry activity
- Little to no data coverage
- Land access problems
 - Environmental,
 - Security and
 - Community restriction

Good business climate - geopolitically stable, fair fiscal regime



Why is NXT focused on Colombia?

Technical Evaluation Areas
Exploration Areas
Production Areas



Per ANH of Colombia

March 10, 2010 -THE WALL STREET JOURNAL

By Jennifer Cummings

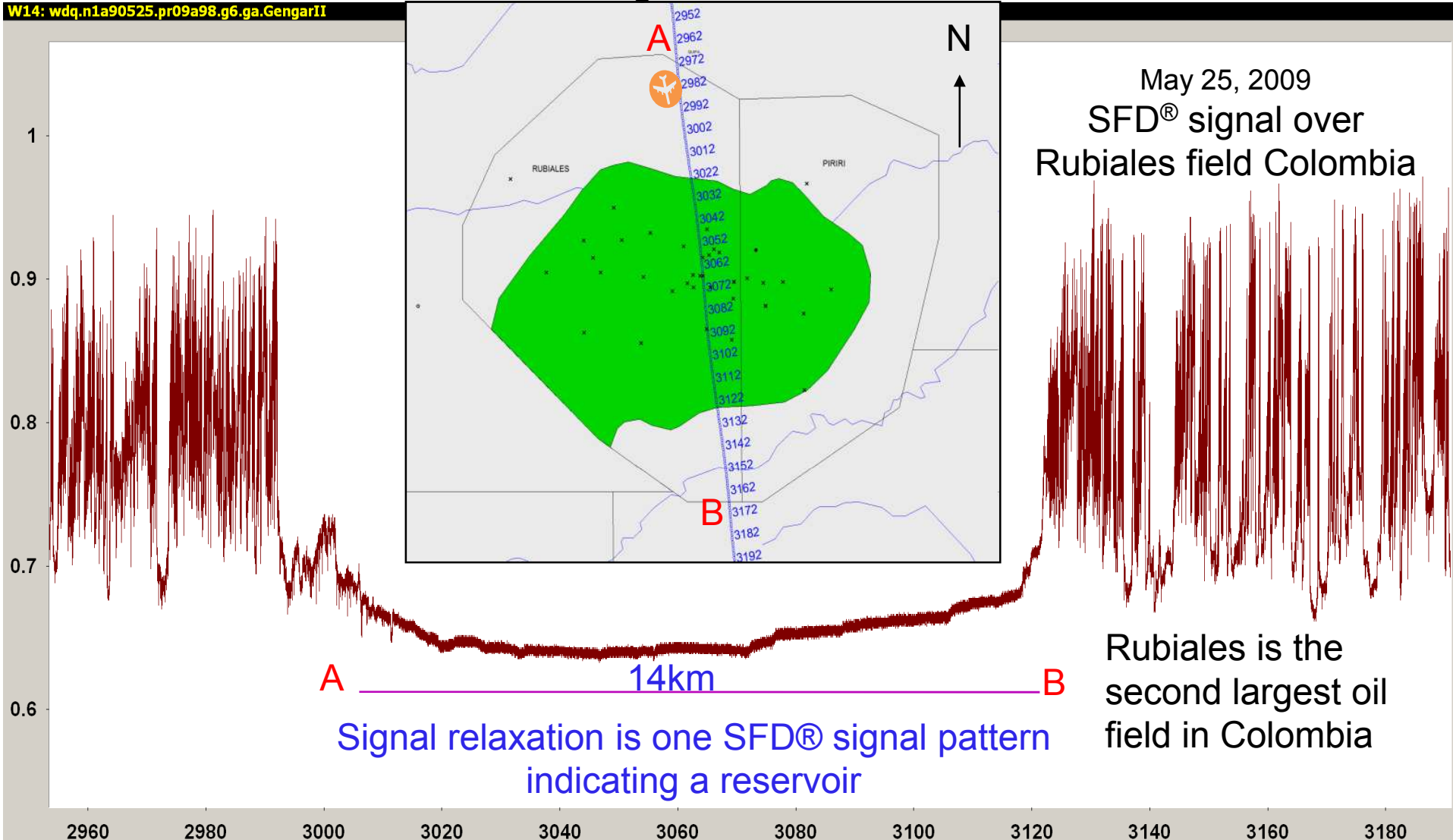
“Colombia has become a magnet for exploration and production companies in recent years ... there is still a lot of oil accessed with ... cost-effective, conventional techniques. “

NXT ENERGY SOLUTIONS



Aircraft flight line

W14: wdq.n1a90525.pr09a98.g6.ga.GengarII



May 25, 2009
SFD® signal over
Rubiales field Colombia

A ————— 14km ————— B
Signal relaxation is one SFD® signal pattern
indicating a reservoir

Rubiales is the
second largest oil
field in Colombia

E&P Companies in Colombia 2009

Sales Contact

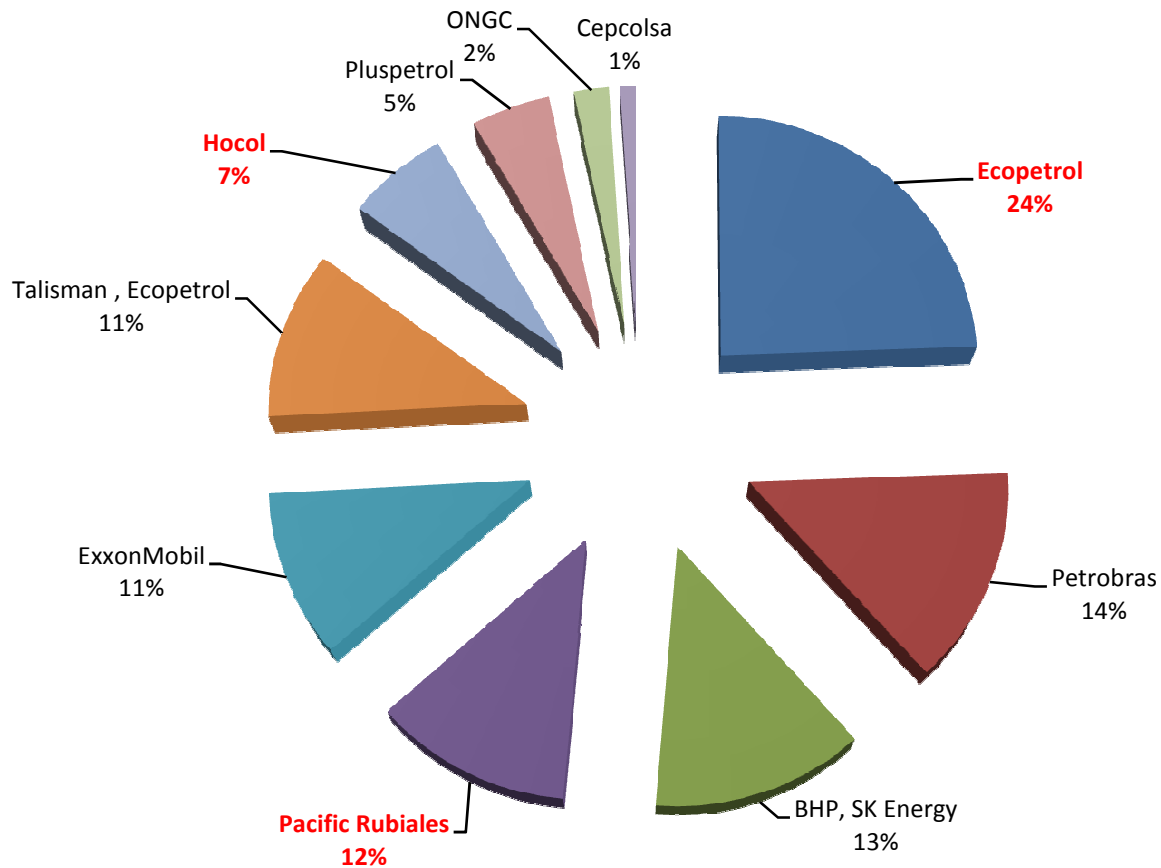
Conducted Survey

Majors	7	BHP BILLITON	RELIANCE INDUSTRIES LTD	BP EXPLORATION COMPANY	SK ENERGY CO LTD
		EXXONMOBIL	TALISMAN OIL & GAS LTD	NEXEN INC.	
NOC	3	ECOPETROL S.A.	ONGC VIDESH LIMITED	PETROBRAS	
IOC	76	ALPHA CONSULTORES	GEOPRODUCTION OIL AND GAS	NCT ENERGY GROUP CA	PETROPULI LTDA
		AMERISUR	GOLD OIL PLC	NEW HORIZON EXPLORATION INC	PETROTESTING COLOMBIA S.A.
		ARGENTA OIL & GAS	GOLDEN OIL CORPORATION	OCCIDENTAL ANDINA LLC	PLUSPETROL RESOURCES CORP.
		BD PRODUCTION CO., INC.	GRAN TIERRA ENERGY LTD	OMEGA ENERGY COLOMBIA	RAMSHORN INTERNATIONAL LIMITED
		C&C ENERGÍA	GREAT NORTH ENERGY INC.	OMMIMEX OIL & GAS	RANCHO HERMOSO S.A
		CARBOPETROL SA	HARKEN DE COLOMBIA LIMITED	OPEN CHOKE EXPLORATION LLC	SHONA ENERGY COLOMBIA LIMITED
		CENERCOL S.A.	HOCOL S.A.	OPERACIONES PETROLERAS AND S.A.	SOGOMI ENERGY S.A.
		CEPCOLSA	HUNT OIL COMPANY	OPICA BLC. S.A	SOLANA PETROLEUM EXPL LTD
		COLOMBUS ENERGY	HUPECOL	PACIFIC RUBIALES	TC OIL & SERVICES S.A.
		COMPAÑÍA DE TRAT DE LODOS SA	INEPETROL S.A.	PAN ANDEAN COLOMBIA	TECPECOL S.A e INEPETROL S.A.
		COMPETROL LTDA	INTEROIL EXPL Y PROD	PARKO SERVICES S.A.	TEXICAN OIL LTD
		CONEQUIPOS ING LTDA	KAPPA RESOURCES COLOMBIA LTD	PETROANDINA COLOMBIA LTD.	THETYS PETROLEUM
		DRUMMOND LTD	LEWIS ENERGY COLOMBIA, INC.	PETROCOLOMBIA	THORNELOE ENERGY
		EL TRIUNFO	MAUREL & PROM COLOMBIA B.V.	PETROLEOS COLOMBIANOS LIMITED	TRAYECTORIA OIL & GAS
		EMERALD ENERGY PLC	MAXIM WELL SERVICES LTD	PETRÓLEOS DEL MAR	TURKISH PETROLEUM INT. CO. LTD
		EMPESA S.A.	MOMPOS OIL COMPANY INC	PETROLEOS DEL NORTE	VAROSA ENERGY LIMITADA
		ERAZO VALENCIA SA	MONTECZ S.A.	PETROLERA MONTERRICO S.A.	VETRA COLOMBIA
		FÉNIX OIL & GAS SA	MORICHAL PETROLEO Y GAS C.A.	PETROLIFERA PETROLEUM LIMITED	WELL LOGGING LTDA
		GEOKINETICS INTERNATIONAL INC.		PETROMINERALES COLOMBIA LTD	WINCHESTER OIL AND GAS
		Total	86		



Current situation analysis

Share of Colombian blocks over 600 sq miles in size
Total area 100,000 sq miles



- For long term success NXT must develop technical arguments
- Leverage client successes to generate Colombian sales
- Build client references and become a market leader in Colombia
- Develop multi-client business



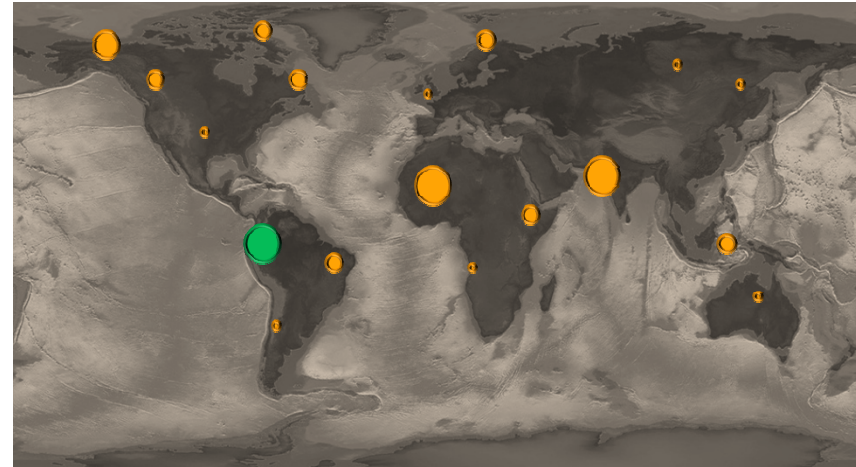
Beyond Colombia



- Participate in leading conferences to generate demand and awareness
- Respond to “bluebird” opportunities for SFD® surveys throughout the world
- Springboard market leadership in Colombia to penetrate international markets

What is the world market for SFD®

- Initial international target market
- Primary
- Secondary
- Tertiary



Indicators of a good SFD® Market

- Large areas with low seismic density
- Significant exploration activity
- Compelling SFD® advantage
- Geopolitical stability
- Access to sales channel
- Good potential client base

Exploration Blocks Awarded



Why invest in NXT?

- Compelling business values for clients
- Early stage revenue, client references
- Positioned for growth
- Good business model – strong margins
- Worldwide market; focused on Colombia
- Strong balance sheet no debt

SFD[®] is a disruptive nanotechnology poised to *fundamentally change how companies explore for oil and gas*

NXT's Team

Management – Calgary, Canada

George Liszicasz - President & CEO

Murray Christie – Senior VP and COO

Andrew Steedman - VP Operations

Azer Mustaqeem P Geoph - Senior Geosciences Consultant

Ken Rogers – VP & CFO

Geosciences Advisor – Madrid Spain

Dr. George Iusco – New Ventures, Repsol YPF

NXT's Branch Office - Bogota, Colombia

Edgar Baquero P Geology - Business Development Representative

Elsa Belén Rangel – Financial Manager



NXT's Board of Directors:

George Liszicasz – President and CEO NXT Energy Solutions Inc.

Douglas Rowe – Businessperson

Brian Kohlhammer – CFO, Delphi Energy Ltd.

Charles Selby – VP & Corp. Secretary, Pengrowth Energy Trust

Mickey Abougoush – Chairman, SQFive Intelligent Oilfield Solutions

Tom Valentine - Partner, Energy Group, MacLeod Dixon



Selected Financial Information

Cdn \$ (000)	Quarter	For the year ended Dec 31.		
	Q3 YTD 2009	2008	2007	2006
Revenue (note 1 & 2)	\$2,639	\$2,955	\$5,642	\$1,249
Net income (loss)	(1,734)	(1,141)	350	(4,264)
Cash Flow operations (note 1)	(1,117)	(1,813)	3,854	(1,128)
Cash Flow pre Working Capital	(1,231)	(117)	1868	(882)
Cash and ST investments	5,670	6,894	7,641	2,308
Total assets	6,437	7,601	9,143	3,433
Common Shares value (note 3)	51,869	51,884	49,790	45,771
# Shares Outstanding (Million)	30.7	30.7	29.7	27.2

1. **Aggregate Revenue since 2006 = \$12.5MM ; Aggregate Cash Used in Operations = \$ 204K;**
2. **On Dec 16, 2009 NXT announced the completion of two surveys generating revenue of \$986K USD in Q4 2009**
3. **+\$50MM Invested ; last funding US \$2 MM thru PP in 2006 - priced at \$1.00 US per share with \$2.00 warrant.**
4. **This information should be read in conjunction with our Financial Statements as filed on EDGAR & SEDAR**



THANK YOU!

