



Contact: Magdalene Woo

Email: cancham@189.cn

Canada: (403) 6892917, China: (86) 13922109129







CONFIDENTIALITY AGREEMENT

(the '	"Recipient") wishes to have access
to certain information belonging to Sino-Can PetroT	ech Ltd. ("SC-PetroTech"), which
SC-PetroTech considers to be confidential or propri	etary in nature.

In consideration of SC-PetroTech providing this information to Recipient for Recipient's review, Purchaser agrees as follows:

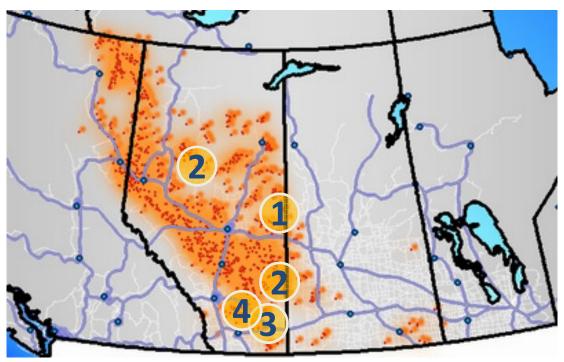
- 1. SC-PetroTech agrees to disclose certain information and data (hereinafter referred to as the "Confidential Information") with respect to the Asset to the Recipient on a strictly confidential basis.
- 2. In consideration of the disclosure of the Confidential Information by SC-PetroTech to the Recipient, the Recipient hereby agrees to keep confidential any and all of the Confidential Information and shall only use or permit the use of the Confidential Information for the purpose of evaluating the subject Asset. The Recipient shall not under any circumstances disclose the Confidential Information, either directly or indirectly, to any third party or parties or to any of its employees, agents, officers, directors, subsidiaries or affiliates, not having a need to know for the purpose of appraising the subject Asset.
- 3. The Recipients confidentiality obligations hereunder shall not apply to any of the Confidential Information which the Recipient can demonstrate to have been known to the Recipient prior to the disclosure to the Recipient by SC-PetroTech.
- 4. The Confidential Information provided by SC-PetroTech shall be provided verbally and in hard copy. Any hard copies of data provided by SC-PetroTech shall be returned to SC-PetroTech plus any copies made by the Recipient for evaluation purposes.
- 5. The Recipient understands that SC-PetroTech has endeavored to include in the Confidential Information those materials which are believed to be reliable and relevant for the purpose of evaluation, however, the Recipient acknowledges that neither SC-PetroTech nor anyone representing SC-PetroTech makes any representation or warranty as to the accuracy or completeness of the Confidential Information.
- 6. An Area of Exclusion is hereby established to include any interest in any asset referred to as the "Exclusion Area" and identified in exhibit "A".
- 7. The Recipient hereby agrees that if it acquires any right or interest within the Exclusion Area during the term of this agreement other than a right or interest made available through SC-PetroTech, 100% of such right shall be immediately offered to SC-PetroTech for a like amount of the consideration expended by the Recipient for the said right or interest, whether such consideration be monetary, incurred obligations or otherwise.
- 8. The Recipient shall not contact the owner of the Asset, nor any employee or any Consultant of the owner of the Asset, except through the employees of SC-PetroTech.

- 9. The Recipient shall:
- (a) be liable to SC-PetroTech for all loss and damages whatsoever which SC-PetroTech may sustain or incur; and
- (b) indemnify and hold harmless SC-PetroTech against all loss and damages whatsoever which may be suffered by SC-PetroTech or which it may sustain or incur, by reason of the failure of the Recipient, its employees, agents, officers, directors, subsidiaries or affiliates to comply with the confidentiality obligations contained in this agreement. The execution of this agreement on behalf of the Recipient is a condition precedent to any disclosure by SC-PetroTech of information to the Recipient relative to the subject Asset.
- 10. This agreement shall in no way be considered an exclusive invitation to the Recipient and it is understood that SC-PetroTech, prior to entering into an agreement with the Recipient with respect to the subject Asset, may withdraw any offer made during or subsequent to presenting the Confidential Information as outlined herein without prior notice to the Recipient.
- 11. This agreement and the relationship between the parties hereto shall be construed and determined according to the laws of the Province of Alberta and each party hereto does attorn to the jurisdiction of the courts of the Province of Alberta with respect to any matter arising out of this agreement.
- 12. Recipient shall not contact SC-PetroTech's clients under any circumstances, unless agreed to in writing by SC-PetroTech.
- 13. This agreement shall be binding upon the parties hereto and remain in effect for a period of Twelve (12) months unless terminated in writing by SC-PetroTech prior to such date.
- 14. This Agreement may be signed scanned and sent by email or facsimile transmission. This procedure will be as effective as signing and delivering an original copy.

AGREED AND ACCEPTED TO this _	of	_2014
Magdalene Woo		
President & CEO		
Sino-Can PetroTech Ltd.		
	Recipient(print n	ame) Signature

ALBERTA OIL WELL PROJECTS:

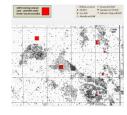


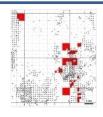


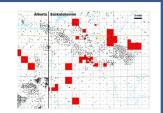
Existing Producing well sites;
Propose well sites









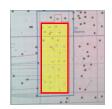


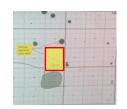


















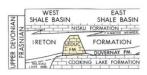
















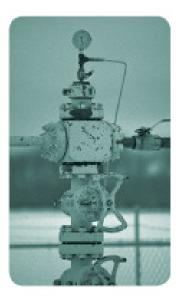








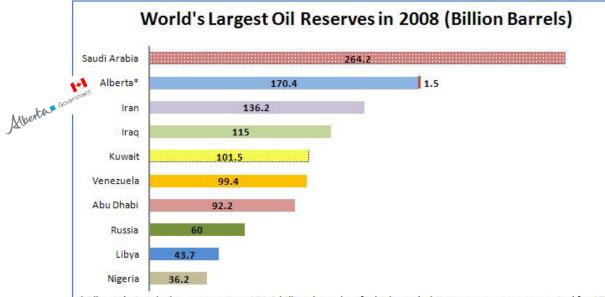






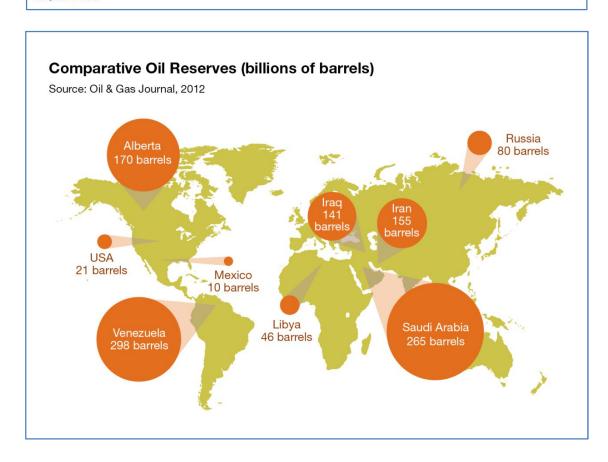






*Alberta's total oil reserves were 171.8 billion barrels, of which crude bitumen reserves accounted for 170.4 billion barrels and conventional crude oil reserves for 1.5 billion barrels (note: totals do not add up due to rounding)

Sources: ERCB 2009 ST-98 Report "Alberta's Energy Reserves 2008 and Supply/Demand Outlook 2009 - 2018" and Oil & Gas Journal "Worldwide Look at Reserves and Production. Special Report", December 22, 2008, Vol. 106, Issue 48





Oil plays

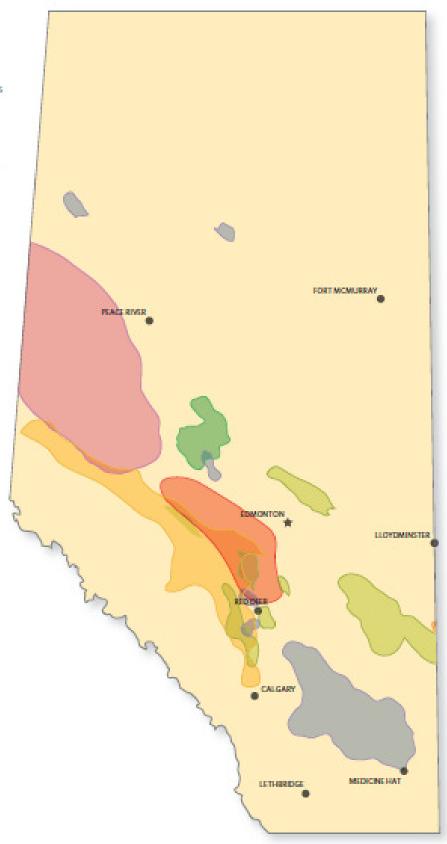
The Alberta Energy Regulator (AER) estimates the remaining established reserves of conventional crude off in Alberta to be 1.7 billion barrels, representing about onethird of Canada's remaining conventional reserves.

This is a year-over-year increase of 9.5 per cent, resulting from production, reserves adjustments and additions from drilling that occurred during 2011.

In 1994, based on the geological prospects at that time, the AER estimated the ultimate potential of conventional crude oil to be 19.7 billion barrels. Given recent reserve growth in low permeability, or tight oil plays, the AER believes that this estimate may be low.

Starting in 2010, total crude oil production in Alberta reversed the downward trend that was the norm since the early 1970s. In 2010 and 2011, light-medium crude oil production began to increase as a result of increased, mainly horizontal, drilling activity with the introduction of multistage hydraulic fracturing technology. The successful application of this technology and increased drilling resulted in total crude oil production increasing by seven per cent in 2011. Alberta's production of conventional crude oil totalled 179 million barrels in 2011.







Alberta's natural gas bounty is plentiful and is produced from both conventional and unconventional reserves. While the vast majority of the province's natural gas is still produced from conventional sources, growing natural gas volumes from coal, shale and tight formations will also be strong contributors going forward.

Alberta has a large natural gas resource base, with remaining established reserves of about 33 trillion cubic feet and estimated potential of up to 500 trillion cubic feet of natural gas from the coalbed methane resource. In addition, a large-scale resource assessment of shale gas potential in Alberta is underway and could significantly add to the natural gas prospects for the province.

GAS PLAYS

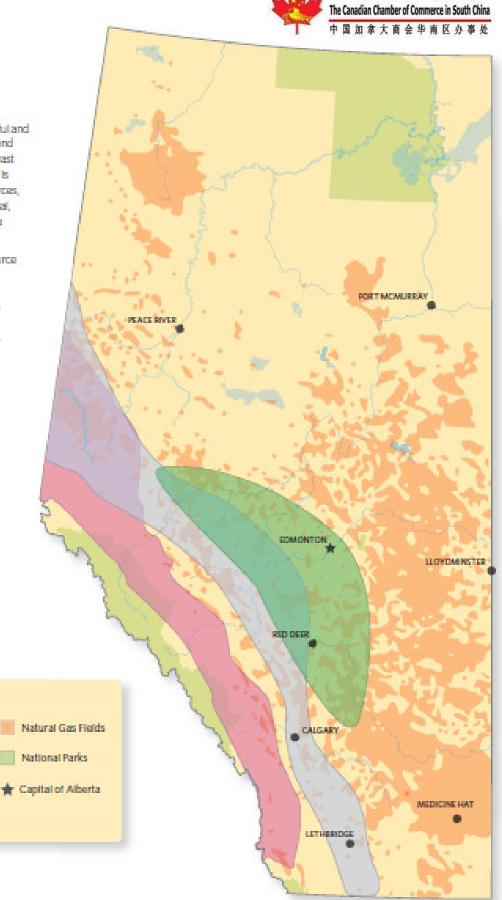
Deep Basin Cretaceous

Nikanassin Deep Basin Gas Play

Montney Hybrid

Multi-Zone Gas Play

Tight Gas/Shale Play



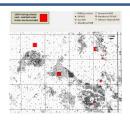
CanCham 1914

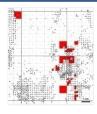
ALBERTA OIL WELL PROJECTS:

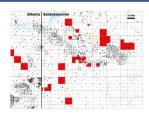








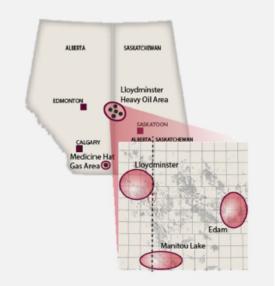




CORPORATE SUMMARY

- 100% working interest and operatorship
- Production base of ~ 1,800 boe/d (99% heavy oil)
- Palliser has developed High Volume Lift ("HVL") techniques and the infrastructure needed to increase oil recoveries from ~10% under Cold Flow Heavy Oil Production ("CHOPS") to >20% with HVL
- Nine 100% WI Salt Water Disposal ("SWD") facilities provide 87,000 bbl/d of salt water disposal capacity to support HVL
- Significant prospect inventory of 169 heavy oil locations
- Undeveloped heavy oil land holdings of 34,042 net acres at March 31, 2014

GREATER LLOYDMINSTER - CORE PROPERTIES



Palliser's focus is on high netback heavy oil production in the Greater Lloydminster area









CORPORATE PROFILE

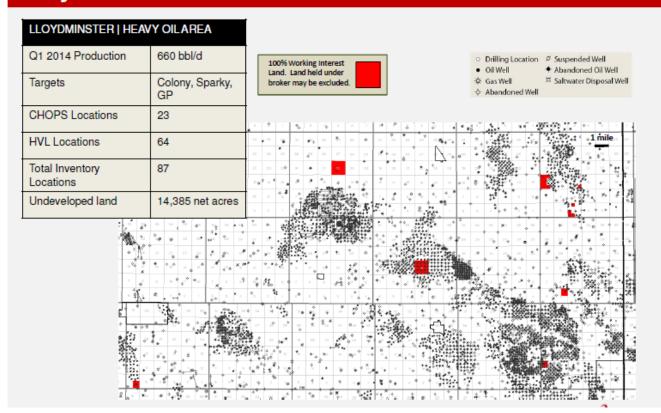
Connect Street Internation	
COMMON SHARE INFORMATION	
TSX Venture exchange listed	PXL
Shares issued and outstanding	Basic 63.9 million Diluted 64.6 million
Officers and directors ownership	Basic 6% Diluted 9%
FINANCIAL / OPERATING	
Credit Facility - National Bank of Canada	\$51.9 million
Net Debt - March 31, 2014	\$49.5million
Tax Pools - March 31, 2014	\$100.0 million
Production - Q1 2014	1,874 boe/d (99% heavy oil)
Undeveloped Land - March 31, 2014	44,405 net acres
Proved Reserves / BT PV10% - December 31, 2013	5,491 mboe \$86.9 million
P+P Reserves / BT PV10% - December 31, 2013	9,410 mboe \$153.3 million
FINANCIAL/OPERATING METRICS	
Enterprise value - \$0.15/share ¹	\$59 million
EV/boe/d – Q1 2014 Production	~ \$31,600/boe/d
EV/boe - December 31, 2013	Proved: \$11.58 P+P: \$6.76
Net Asset Value Before Tax 1,2	Proved: \$0.61/sh P+P: \$1.64/sh

FINANCIAL AND OPERATIONAL SUMMARY

		2012 Actual	2013 Actual
Revenue	\$/boe	\$61.18	\$67.41
Realized Hedging Gain / (Loss)	\$/boe	\$4.81	\$(1.61)
Royalty Rate	%	23%	25%
Royalty Expense	\$/boe	\$14.26	\$16.79
Production & Operating Expense	\$/boe	\$21.81	\$26.46
Transportation Expense	\$/boe	\$ 1.23	\$ 2.18
Operating Netback	\$/boe	\$28.69	\$20.37
G&A Expense	\$/boe	\$5.43	\$5.14
Interest Expense	\$/boe	\$1.61	\$1.85
Funds Flow Netback	\$/boe	\$21.65	\$13.38
Total Field Cash Flow	\$mm	\$22.2	\$17.4
Total Funds Flow	Smm	\$16.9	\$11.8
Net Capital Expenditures	\$mm	\$36.5	\$24.4
Production:			
Oil & NGLs	bbl/d	2,065	2,304
Gas	mcf/d	351	221
Total	boe/d	2,124	2,340



Lloydminster - East Central Alberta

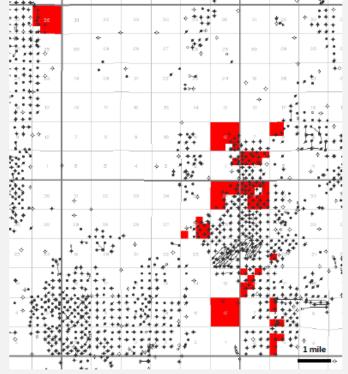


Edam - West Central Saskatchewan

EDAM HEAVY OIL AREA	
Q1 2014 Production	525 bbl/d
Targets	Waseca, Sparky, GP
CHOPS Inventory Locations	9
HVL Inventory Locations	40
Total Inventory Locations	49
Undeveloped land	6,191 net acres

100% Working Interest Land. Land held under broker may be excluded.

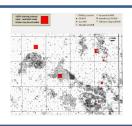
- Drilling Location Ø Suspended Well Oil Well + Abandoned Oil Well □ Saltwater Disposal Well ☆ Gas Well
- Abandoned Well

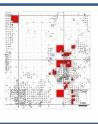


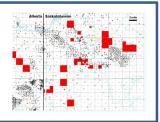












Company: Palliser Oil & Gas Corporation

TSV Stock symbol: PXL.V (\$ 0.21)

Production 2014: 1,874 boe/d (99% heavy oil)

Undeveloped Land – 2014 44,405 net acres

Proved Reserves / BT PV10% - Dec. 2013 5,491 mboe \$ 86.9 million

P+P Reserves / BT PV 10% - Dec. 2013 9,410 mboe \$153.3 million

Enterprise value - \$0.15/share \$ 59 million







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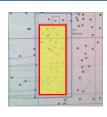
ALBERTA OIL WELL PROJECTS:

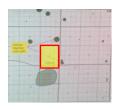














<u>Crude Oil Production</u>: <u>Reserves – Dec 31, 2013</u>:

(GLJ Reserves Report)

Currently around 100 bbls/d

Proved (Mbbl) 136
Probable (Mbbl) 622
Total 2P (Mbbl) 758
PV @10% (\$MM) \$19.25

Balance Sheet:

 Current Assets
 \$ 11,029,796

 Long Term Assets
 10,997,306

 Long Term Liabilities
 (540,538)

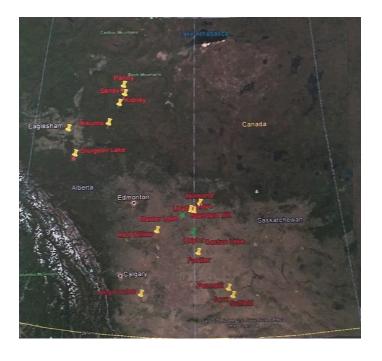
 Net Equity
 \$ 21,396,564

Shares Outstanding 50,000,000



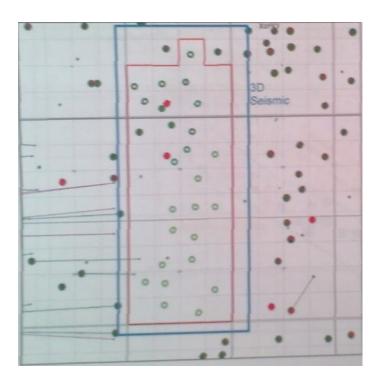






Oil Production:

- Oil production is currently around 100 bbl/d and is projected to grow to approximately 750 bbls/d by the end of the 1st Quarter of 2014 through an estensive drilling program focused on the S.W. Saskatchewan development plays in Gull Lake and Pennant.
- With development of all areas, production is expected to grow to 3,000 bbls/d over the next 3 years.

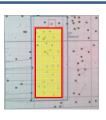


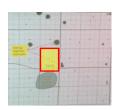
- 2.56 sections (6.6 km2) land with PNG surface to basement
- 3 Producing wells from Jurassic Roseray
 Formation at 1,000 to 1,100 m depth
- Over 10 more drilling locations targeting three formations, identified based on new 3D seismic.
- Signed farmout agreement with a 50% partner in June 2013
- \$16mm gross (8mm net) capital expenditure program planned over the next 24 months
- Internal assessment expects 4-7 MMbbls in reserves, 2,000 – 3,000 bbls/d production and \$140-280MM PV at 10%.











Company: SUNDANCE Energy Corp.

TSV Stock symbol: SNY.V (\$ 0.22)

Production 2013: 100 boe/d (4 wells)

Undeveloped Land – 2014 38,000 net acres

Proved Reserves / BT PV10% - Dec. 2013 136 mboe \$ 6.9 million

P+P Reserves / BT PV 10% - Dec. 2013 758 mboe \$12.3 million

Investment for (12 wells) production: 1800 boe/d \$20 million

ROI of \$20 million (stock & equity) ~\$55 million







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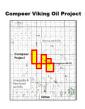
ALBERTA OIL WELL PROJECTS:

















Corporate Profile and Overview

Listed on US.OTC Exchange STBR.QB

Basic shares outstanding 27,896,684

Insiders and founders ownership 41%

Largest Shareholder 1
 Holloman Value Holdings, LLC
 6,600,000 (or 24% of O/S)

• 52 week trading range \$0.50 - \$1.00 per share

Market valuation \$17.6 million







Corporate Evolution

Compeer Viking oil opportunity

- ✓ Drilled first corporate Viking horizontal oil well
- ✓ Earned eight sections of Crown P&NG rights from surface to basement expiring in 2017-09-30
- Producing well while monitoring area competitor activity

Consolidate share capital structure

✓ Completed one for four reverse split resulting in 27.5 million shares outstanding

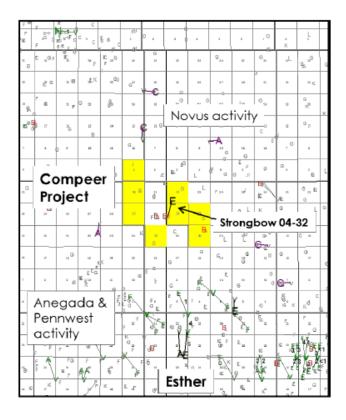
Engage technical and operating team

✓ Attracted and retained services of key technical and operational personnel

Reinvigorate corporate development

- Identify, evaluate and capture new potential growth opportunities
- Source additional capital through existing and/or new shareholders
- Move Strongbow from emergent position to fully functional junior oil and gas operating company in Western Canada

Compeer Viking Oil Project

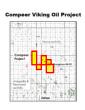


- Drilled first Viking horizontal well 04-32-33-02W4 and placed on production
- Continue to evaluate 04-32 well results in order to improve on drilling, completion and production practices in future Compeer Viking horizontal wells
- Earned 100 percent working interest (subject to sliding scale 5 – 15% NCGORR) of the P&NG rights in 8 sections of land from Harvest Operations Corp.
- Novus drilled 4 Viking horizontal wells (of 6 licensed) in February 2014 proximal to Compeer
- Anegada and Pennwest continue their Viking horizontal drilling activity to the south of Compeer at Esther













Company: STRONGBOW Resources Inc.

OTCQB Stock symbol: STRB (\$ 0.60)

Production 2013: 80 boe/d (1 wells)

Undeveloped Land – 2014 24,500 net acres

Proved Reserves / BT PV10% - Dec. 2013 236 mboe \$ 9.9 million

P+P Reserves / BT PV 10% - Dec. 2013 1028 mboe \$15.3 million

Investment for (15 wells) production: 1500 boe/d \$30 million

ROI of \$30 million (stock & equity) ~\$70 million







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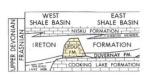
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ALBERTA OIL WELL PROJECTS:





THUNDERBIRD













Private Placement of \$275,000

September 5, 2014 – Calgary, Alberta – Tanager Energy Inc. ("Tanager" or the "Corporation")

advises that pursuant to a non-brokered private placement, the Corporation will issue 3,437,500 units at a price of \$0.08 per share for gross proceeds of \$275,000. Each Unit consists of one (1) common share and one (1) common share purchase warrant. Each warrant entitles its holder thereof to purchase one additional common share in the capital of Tanager for a period expiring on October 5, 2016, at an exercise price of \$0.15 per common share. The shares issued in connection with the private placement will be subject to a four month hold period. The funds will be used for oil and gas development and general corporate purposes.

The Private Placement which is non-brokered is scheduled to close on or before October 5, 2014 and is subject to the normal approvals by the TSX Venture Exchange.

Tanager Energy Inc. is a Lethbridge, Alberta based corporation engaged in the exploration for oil and gas and minerals, with an operations office in Calgary, Alberta. The Corporation's common shares are listed on the TSX Venture Exchange under the trading symbol "TAN".

For further information please contact:

John Squarek BSc, P. Eng., MBA President and Chief Executive Officer







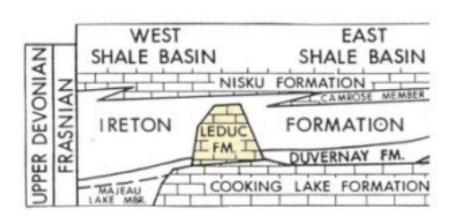
Project Statement

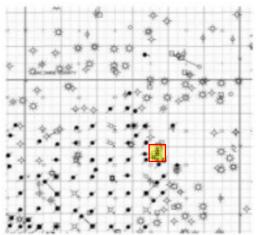
Tanager holds 100% interest in this project (Leduc D-3 Oil Unit No. 1) and is the operator. This Unit consists of 4 suspended oil wells and 1 suspended water injection well.

The goal is to re-enter these suspended wells and place them back on production, as required, dependent on the production achieved. The first well is expected to be recompleted in the 4th quarter of 2013., Production from this well is estimated at 50 BOE per day.

Prolific Oil and Gas Area

The Unit is located within a prolific oil and gas production area in Central Alberta. This Unit is an oil reservoir which has already produced over 6 million barrels of oil and 26 BCF of gas from 7 wells according to the Alberta Energy Regulator (AER).





Reserves Evaluation

Note: The following evaluation is for 100% interest in the Unit.

Reserves	Light Oil (Mbarrels)	Natural Gas (MMCF)	TOTAL MBOE
Proved	191.5	1128.1	379.5
Probable	185.6	1026.2	356.7
Total P+P	377.1	2154.3	736.2

Value \$M	Undiscounted	Discount 10%	Discount 15%
Proved	\$4,797.7	\$3,061.8	\$2,529.0
Proved + Probable	\$10,727.6	\$7,051.9	\$5,957.1

Evaluation by the Resources Evaluation and Advisory Group of Deloitte LLP

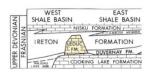
Share Structure

Total Issued &Outstanding 43,454,024

Management 19.0%













Company: TANAGER Energy Inc.

TSV Stock symbol: TAN.V (\$ 0.03)

Production 2013: 160 boe/d (4 wells)

Undeveloped Land – 2014 73,000 net acres

Proved Reserves / BT PV10% - Dec. 2013 102 mboe \$ 5.9 million

P+P Reserves / BT PV 10% - Dec. 2013 558 mboe \$10.3 million

Investment for (6 wells) production: 1000 boe/d \$10 million

ROI of \$10 million (stock & equity) ~\$20 million







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Calgary Economic Development is looking for an expression of interest in our 2014 trade & investment mission to China by Friday, August 22, 2014.

Calgary, a global energy centre, is strengthening its reputation as an international energy and financing hub.

Through the China Trade & Investment Summit, Calgary companies will have an opportunity to create awareness, strengthen strategic alliances, build partnerships and attract inbound investment opportunities in Calgary's energy sector.

Building on our successful business programs over the last three years in China, and in partnership with the Canadlan Association of Petroleum Producers (CAPP) we are leading a mission in October focusing on trade & investment that will strengthen Calgary's position as a global energy centre. The summit will be held in conjunction with the Western China International Fair (WCIF) in Chengdu, and the Canada China Business Council AGM and the 10th annual Canada-China Energy & Environment Forum in Beijing.

Tentative program (Details are subject to change)

Chengdu, China

Friday, October 24

- Calgary Economic Development-led China Trade & Investment summit followed by pre-scheduled B2B meetings
- Delegate reception

Saturday, October 25

Western China International Fair – specific programming TBD

The 14th Western China International Fair (WCIF) is an international exposition under the co-sponsorship of China's 16 ministries/commissions and 12 provinces. Based in western China, the WCIF has national and global influence at large. Established by the Chinese government, it serves as an important platform for investment promotion, trade cooperation and diplomatic service in western China, between eastern and western China, and China and foreign countries; It is the largest and most important platform for the opening-up and development of Western China.

With the support of the Government of Alberta, Department of Commerce in Sichuan province, Canadian Consulate in Chongqing and other local business associations, Calgary Economic Development will develop a program to take advantage of WCIF events and programming for delegates to support networking and additional B2B opportunities.



Hosted in partnership with







Why Chengdu?

Chengdu is the engine for China's Western Development Strategy and the "fourth pillar" boosting the development of the Chinese economy.

Chengdu is the capital city of Sichuan province, which has abundant reserves of natural gas. It is one of the new energy centres in China. Investors in Western China has been encouraged by the government's "going out" policy, looking for foreign investment opportunities.

Sunday, October 26

Depart from Chengdu to Guangzhou

Guangzhou

Monday, October 27

- Calgary Economic Development led China Trade & Investment summit followed by pre-scheduled B2B meetings
- Delegate reception

Tuesday, October 28

Depart to Beijing

Why Guangzhou?

Guangzhou is the capital city of Guangdong province, which has the highest GDP in China. Being the third largest city in China (after Beijing and Shanghai), Guangzhou has a population of more than 12 million. As the business hub of southern China, Guangzhou is the pioneer of the country's economic development. The rising energy demand and the "going out" policy of the country has encouraged Guangzhou, the traditional port, to invest in international natural resources especial in natural gas.

Optional events in Beijing, China

*Costs to be paid separately from the above program.

Wednesday, October 29

- 10th annual Canada-China Energy & Environment Forum
- Canada China Business Council (CCBC) evening banquet



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Thursday, October 30

- CCBC's 36th Annual General Meeting and Policy Conference. Delegates will join other senior executives
 from Canada and China for a forum that will focus on the pillars of effective business diplomacy,
 engaging leaders in a discussion on the challenges and opportunities for increased financial
 engagement between Canada and China.
- 10th annual Canada-China Energy & Environment Forum
- CED-led cultural event in the evening

Friday, October 31

10th annual Canada-China Energy & Environment Forum

Saturday, November 1

Travel day

Who should attend?

The investment symposium is aimed at Calgary energy companies interested in seeking investment from China who operate in upstream, midstream and downstream sectors in the oil and gas industry and companies that want to strengthen relationships with Asian counterparts and actively promoting Calgary as a destination for continued investment and growth.

Fast facts: China

- China's energy demand is expected to soar 75 per cent by 2035.
- China's three largest oil companies have stakes in the Canadian energy sector and have established
 offices in Calgary.
- China has surpassed the U.S. to become the world's largest consumer of energy.
- Over the next decade China is expected to invest > \$2 trillion in overseas companies, plants or property.
- China is Alberta's second largest trading partner. Alberta's trading relationship with China has more than tripled since 2003.
- The Government of Alberta signed an MOU with China's National Energy Administration on sustainable energy development, which aims to strengthen energy trade and responsible development ties between the two jurisdictions.

Sources: IEA. New York Times and Government of Alberta

Registration

Please Indicate your expression of Interest by email to Rachel Yin or Alecia Peters (contact details below) no later than Friday, August 22, 2014.



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Upon your expression of interest, we will continue to communicate the details of the program with you as they become available and will work with you to obtain all the required information for our marketing materials and our business to business matchmaking meetings. Costs to be finalized.

Delegates will be responsible for booking their own travel, accommodation and visas (Calgary Economic Development will recommend fights and hotels and assist with visas).

Sponsorship opportunities

Sponsoring partners are being sought for this mission. If you are interested in playing a greater role in the program please contact one of the business development managers listed below.

Sponsorship opportunities may include:

- · Chengdu evening reception
- Chengdu delegate dinner
- Guangzhou delegate reception

Rachel Yin

Business Development Manager – Financial Services Investment & Trade Development T 403.221.7849 | F 403.221.7828 | C 403.807.7281 rvin⊛calgarveconomicdevelopment.com

Alecia Peters

Business Development Manager - Energy Sector Investment & Trade Development T 403.221.3557 | F 403.221.7828 | C 403.818.0540 apeters@calgaryeconomcidevelopment.com





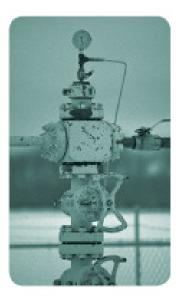


















Oil and gas statistics

DRILLING RIG COUNT BY PROVINCE/TERRITORY

Western Canada, Nov. 26, 2013	ACTIVE	ромм	TOTAL	ACTIVE
Wostern Canada				(Per cent of total)
Alberta	264	304	568	46%
British Columbia	62	15	77	ans
Manitoba	10	11	21	48%
Saskatchewan	87	62	149	58%
WCTotal	423	392	615	52%

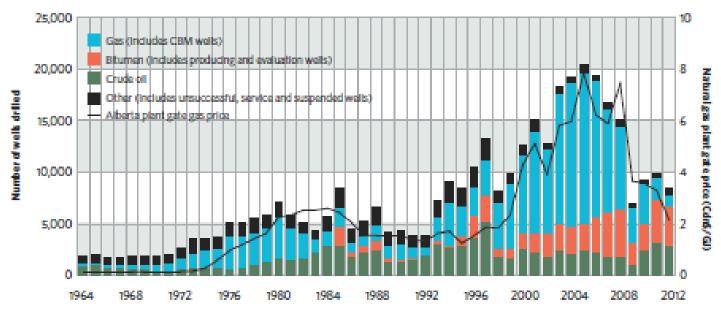
Source Sand House History Longy Group

OIL & GAS WELL COMPLETIONS BY PROVINCE/TERRITORY

Festern Canada, November 2013 OILWIRLS			ex swells		
Western Canada	November 2012	November 2012	November 2012	November 2012	
Aberta	533	463	137	164	
Brttsh Columbia	10	4	75	54	
Manttoba	46	46	0	0	
Saskatchawan	344	339	3	0	
Total	926	652	215	218	

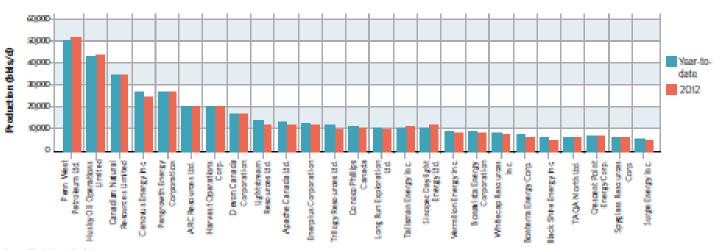
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DRILLING ACTIVITY IN ALBERTA, 1964 - 2012

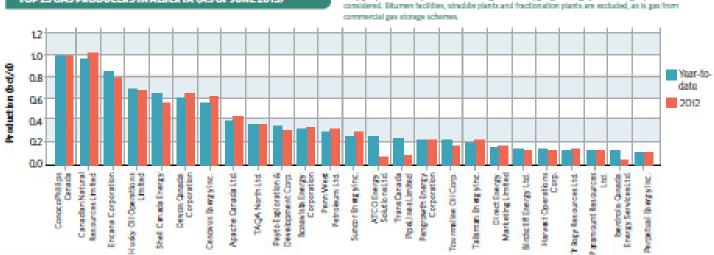


Issue Alleria Degy Replate

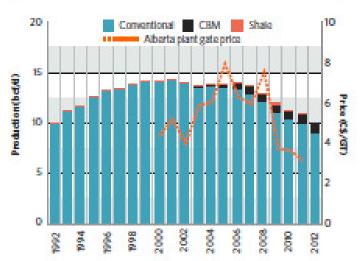
TOP 25 OIL PRODUCERS IN ALBERTA (AS OF JUNE 2013)



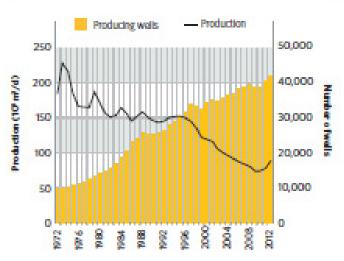
TOP 25 GAS PRODUCERS IN ALBERTA (AS OF JUNE 2013) Only gas production reported from oil and gas batteries, gas gathering systems and gas plants is red. Elturren facilities, straddle plants and fractio



ALBERTA MARKETABLE GAS PRODUCTION



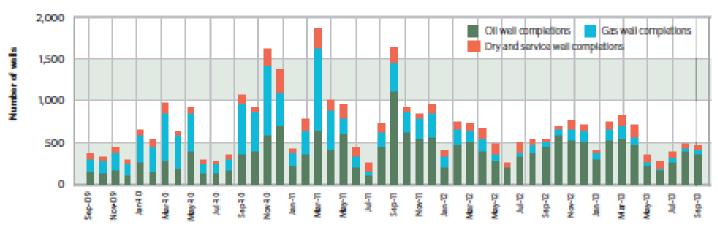
ALBERTA CRUDE OIL PRODUCTION AND PRODUCING WELLS



Source Alberta Streety Beg-

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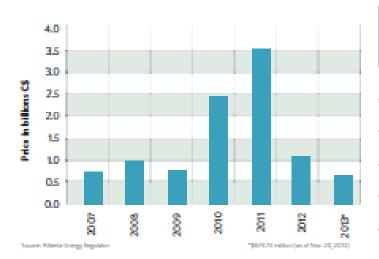
ALBERTA WELL COMPLETIONS



Name of Street Wilders Wildlick Toward County

ALBERTA CROWN LAND SALES

PSNG rights, excluding oil sands

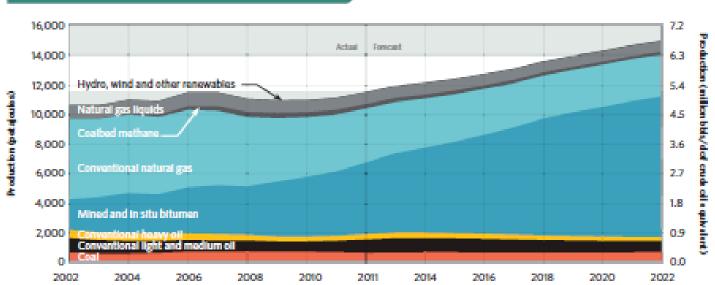


WELL DEPTHS

		GAS			OIL	
	Total metres	Wells drilled	Avg. well depth (m)	Total metres	Wells drilled	Avg.well depth (m)
2008	12,301,283	9,937	1,238	8,873,082	5,834	1,524
2009	6,643,169	4,195	1,584	5,448,469	3,573	1,525
2010	8,512,677	4,565	1,865	10,981,246	6,709	1,637
20m	7,251,446	2,799	2,591	15,390,096	8,892	1,731
2012	5,009,578	1,487	3,369	15,891,329	8,501	1,869

Source: Accel Variety Pitchle's Energy Groups

TOTAL PRIMARY ENERGY PRODUCTION IN ALBERTA



Source Alberta Greegy Begulator



Promising tight oil plays

Alberta's crude oil potential was once thought to be declining—but not anymore. With technological advancements, both conventional fields and new oilladen fields that were thought to be uncommercial with pre-existing vertical drilling technology are now the hot crude plays in the province. Here's a look at some of the more promising tight oil plays that have been unlocked via horizontal drilling and multistage fracturing technology.

DRAINING THE CARDIUM

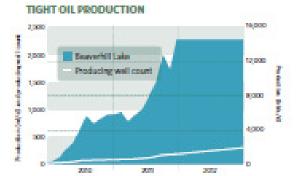
Coaxing crude oil out of the ground from the Cardium formation underlying the Pembina oilfield has always been a matter of brute force.

The Pembina #1 discovery well, drilled by Socony-Mobil in the winter of 1953, required a fracture treatment consisting of diesel fuel and 3,000 pounds of sand pumped at 1,800 pounds per square inch of pressure to get oil flowing to the wellbore in commercial quantities.

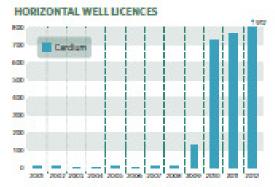
Almost 60 years later, oil explorers are still at it, cracking sandstone as deep as 9,400 feet beneath the surface in the hopes of striking pay. Only now the wells drilled are horizontal and stretch as far as a mile through the reservoir. Massive fracture treatments consist of 20 tons of sand—more than 12 times as much as was pumped downhole in the Pembina #1—mixed with specialized fluids. And as many as 20 stages are fracture stimulated one after another along the horizontal leg using on average 10,000 horsepower of pumping might.

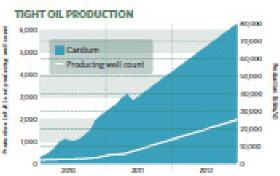
The size of the prize is huge. The Alberta Energy Regulator says the Cardium had 10 billion barrels of original oil in place with around 1.7 billion barrels produced. However, those numbers were derived from

BEAVERHILL LAKE



CARDIUM





historical records from vertical drilling in the play.

Estimates now suggest the Cardium could contain as much as 15 billion barrels of oil, and expect 20–30 per cent of that oil could ultimately be recovered.

RETURN TO SWAN HILLS

The Beaverhill Lake carbonate play in the Swan Hills north of Edmonton is another hot tight oil play in central Alberta. Home Oil Company originally discovered the North Swan Hills field in 1956. Amoco Corporation and Gulf Oil Corporation discovered the South Swan Hills unit in 1959. Combined, the two fields had around four billion barrels of oil in place.

Producers are using a 14-stage fracture stimulation program with a retrievable multi-fracturing tool that allows full wellbore access later if needed. More and more acid is being pumped in each fracture stage to open up more reservoir. Operators are now injecting as much as 1,200 cubic metres of acid per stage. The acid treatment is custom designed for the formation rock. Jet pumps are being used to enhance cleanup after the fracture stimulation to mitigate any formation damage, and multi-well pads are being used to cut costs and environmental footprints.

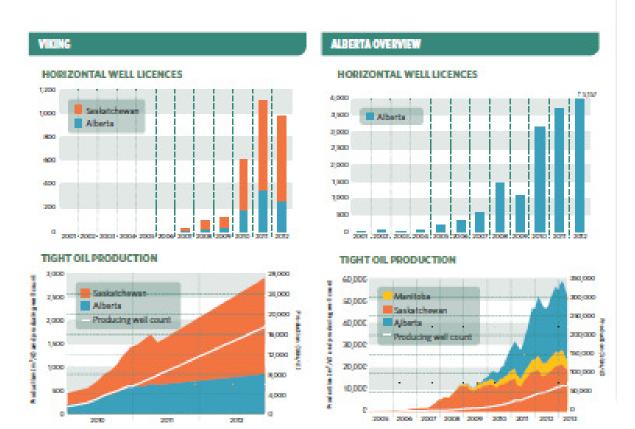
PIERCING THE VIKING

Another major play taking shape in central Alberta is in the Colorado Group, in the eastern reaches of the province. The Viking oil play at Halkirk and Redwater has mainly entered development mode while in other areas it remains In exploration mode. Given the strength of oil prices in this market, the Viking will be targeted by more and more operators providing new well data and evolving the play in the province.

In 2012, WestFire Energy Ltd., which in October 2012 amalgamated with Guide Exploration Ltd. to become Long Run Exploration Ltd., has been the premier Viking player in Alberta. At Redwater, WestFire holds 62 net sections of land. In 2012, the company's Viking wells achieved marked improvement in Initial production rates, thanks to its modified completion methods.

Penn West Petroleum also has a significant position in the Viking oil play. On the Alberta side, production results from the gassy-oil wells drilled in 2012 continue to be encouraging, reports the company. During the year, the company expanded its gas-handling infrastructure to support its active 2013 drilling programs.

Novus Energy Inc. recognizes the vast potential of the Viking, and the company recently amassed 46 net sections of Crown lands prospective for Viking oil in the Provost area of Alberta. Novus believes the assembled acreage meaningfully increases the company's future drilling and development inventory. Drilling on these lands is planned for early 2013.





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