

December 8, 2010

Orca Exploration¹ (ORC/B CN)

BUY

Last: C\$5.65

Target: C\$8.80 ↑

WHAT'S CHANGED

	NEW	OLD
Rating	nc	BUY
Target	C\$8.80	C\$7.10
Production 2010E (boe/d) 6:1	6,175	5,763
Production 2011E (boe/d) 6:1	7,563	6,075
CFPS 2010E (f.d.)	\$0.58	\$0.48
CFPS 2011E (f.d.)	\$0.84	\$0.55

SHARE DATA

Shares o/s (mm, basic/f.d.)	29.5/32.1
52-week high/low	C\$5.38/C\$2.97
Market capitalization (mm)	\$164
Enterprise value (mm)	\$145
Net debt (mm) – 2009A	(\$16.8)
Dividend yield	n/a
Projected return	56%

FINANCIAL DATA

	2009A	2010E	2011E
Oil & NGLs (mb/d)	0.0	0.0	0.0
Natural Gas (mmcf/d)	28.5	37.0	45.4
Total (mboe/d) 6:1	4.8	6.2	7.6
Equivalent growth	20%	30%	22%
Brent (US\$/b)	62.04	77.50	79.50
UK Gas (US\$/mmbtu)	4.83	6.84	6.50
FX rate (USD/CAD)	0.88	0.96	0.95

EPS (f.d.)	\$0.10	\$0.31	\$0.47
CFPS (f.d.)	\$0.39	\$0.58	\$0.84
Net Debt (mm)	(\$16.8)	(\$54.8)	(\$39.2)
Debt/CF	nm	nm	nm
P/CF		10.4x	7.2x
P/CF (d'adj'd)		6.1x	4.8x

*(In US\$ unless otherwise stated)

Increasing our target price ahead of 2011 exploration in Tanzania and Italy

New farm-in in Italy

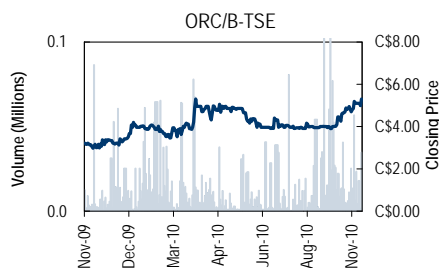
Orca Exploration has agreed to farm into Northern Petroleum's Longastrino Permit in the Po Valley Basin, onshore Italy. Although a relatively minor transaction, ORC continues to expand its Italian portfolio in-line with its plan to acquire exploration/appraisal prospects that meet company's strategic criteria. ORC will earn 70% by paying 100% of the costs of the first well up to EUR4.3 mm and 70% thereafter. If the well is tested, then ORC will earn an additional 5% by paying 100% of the testing costs up to EUR1.3 mm and 75% thereafter. ORC will also pay back costs of EUR0.6 mm. NOP's equity will reduce to 30% during drilling and then by a further 5% if the well is flow tested. The La Tosca prospect, which is believed to hold 45 bcf of gross mean prospective resources, is expected to be drilled in 2011. The prospect has an upside of 85 bcf of gross prospective resources of gas.

High impact drilling in Tanzania in 2011

Exploration drilling at the Songo Songo West prospect is expected in H2/11. Given its proximity to the main Songo Songo field, McDaniel & Associates Consultants Ltd. views it as a low risk prospect with unrisked mean recoverable resources of 551.6 bcf.

Changes to our target price

We now reflect the upcoming exploration drilling both in Tanzania (Songo Songo West) and Italy (La Tosca) in our 12 month price target which increases to C\$8.80/sh (from C\$7.10/sh). Our view on Orca remains unchanged and with a 56% return we maintain our BUY recommendation. We believe the company is well positioned to finance its activities going forward after the ~\$19 mm rights issue in Oct/10. As the company addresses the infrastructure bottle-neck issues we believe we will see cash flow growth from the increased gas sales in Tanzania.



EXPLORATION DRILLING IN 2011

In Italy, Orca Exploration has agreed to farm into Northern Petroleum's Longastrino onshore permit in the Po Valley Basin. ORC will earn 70% by paying 100% of the costs of the first well up to EUR4.3 mm and 70% thereafter. If the well is tested, then ORC will earn an additional 5% by paying 100% of the testing costs up to EUR1.3 mm and 75% thereafter. ORC will also pay back costs of EUR0.6 mm. NOP's equity will reduce to 30% during drilling and then by a further 5% if the well is flow tested. The La Tosca prospect, which is believed to hold 45 bcf of gross mean prospective resources, is expected to be drilled in 2011. The prospect has an upside of 85 bcf of gross prospective resources of gas. Orca is executing on its acquisition plans adding exploration prospects to its stable production and development portfolio and is also balancing its risk by picking lower risk exploration/appraisal opportunities in proven hydrocarbon basins with significant upside.

The appraisal of the Elsa discovery by drilling and testing the Elsa-2 well is suspended due to unresolved legislative issues. In our previous note dated October 15, 2010, we provided a detailed information on the situation around the Italian drilling ban which to this date remains unchanged.

Exploration drilling at the Songo Songo West prospect in Tanzania is expected in H2/11. Songo Songo West lies on a separate fault block ~2.5 km to the west of the main field and is believed to be very similar to the main field in terms of trap and reservoir presence. Like the main field, two reservoirs are believed to be present, the Neocomian and Cenomanian. Given its proximity to the main Songo Songo field, McDaniel's views it as a low risk prospect with a 52% chance of success in the Neocomian and 35% chance of success in the Cenomanian. McDaniel's estimates an unrisks combined P50 OGIP of 609 bcf and unrisks resources of 450 bcf. SSW requires a jack-up to drill and Orca believes that deferring drilling will result in lower drill costs due to the current weak jack-up market. In addition, the reserves in the main Songo Songo field are sufficient to meet current gas demand in Tanzania and significant additional processing facilities would be required to commercialize SSW. We believe the largest risk for SSW will be gas demand growing sufficiently for the gas to be produced in the life of the PSC (until 2026).

PRODUCTION ESTIMATES AND ADDRESSING BOTTLE-NECK ISSUES

Addressing bottle-neck issues and accelerating infrastructure development in Tanzania is one of the key activities for Orca. The company is making progress in finalising a re-rating agreement with Songas Limited to increase capacity from 90 mmcf/d to 105 mmcf/d. A permanent expansion upgrade is expected to increase capacity to ~140 mmcf/d by the end of 2012. Songas expects to submit an application for the permanent infrastructure expansion to 140 mmcf/d in Q4/10.

Taking into account long-term plans to increase gas sales in Tanzania, as well as recently reported Q3/10 production levels, we adjust our production and cash flow estimates going forward.

Exhibit 1: Changes to our estimates

	2010E			2011E		
	Old	New	% Change	Old	New	% Change
Production						
Total (mboe/d) 6:1	5.763	6.175	7%	6.075	7.563	24%
CFPS						
CFPS (FD)	\$ 0.48	\$ 0.58	21%	\$ 0.55	\$ 0.84	53%

Source: Orca Exploration, GMP Estimates

VALUATION AND RECOMMENDATION

We are increasing our target price from C\$7.10 to C\$8.80 following the inclusion of the upcoming exploration drilling both in Tanzania (Songo Songo West) and Italy (La Tosca). Songo Songo West exploration that is planned for H2/11 is valued at C\$1.21/sh risked and C\$4.36/sh unrisked. La Tosca prospect, onshore Italy, is carried at C\$0.39/sh risked and C\$2.51/sh unrisked and is now included in our target price calculation. Due to unresolved situation in Italy around the drilling ban, we temporarily exclude the Elsa-2 appraisal well from our target price, but continue to value its C90 resources at C\$0.62/sh risked (C\$1.74/sh unrisked) and its C50 potential at C\$0.99/sh (C\$4.33/sh unrisked) in our EMV.

Our view on Orca remains unchanged and with a 56% return we maintain our BUY recommendation. We believe the company is well positioned to finance its activities going forward after the ~\$19 mm rights issue in Oct/10. As the company addresses the infrastructure bottle-neck issues we believe we will see cash flow growth from the increased gas sales in Tanzania. High-impact exploration in Tanzania and Italy provide further catalysts for the stock in 2011. As more information on the drilling ban in Italy becomes available, we will be able to adjust our valuation, as we continue to believe that there is significant potential value in Elsa.

Exhibit 2: Net Asset Value

Net Asset Value Breakdown				
	MMBOE	US\$/BOE	US\$MM	C\$/sh
Production Assets	50.1	3.46	173.44	4.90
Cash/(Net Debt)			55.27	1.56
Other items incl G&A			(20.69)	(0.58)
Core NAV	50.1	4.15	208.03	5.87
<i>Price to NAV (%)</i>				96%
Option Proceeds			10.13	0.29
Risked Upside	108.3	2.82	305.52	8.62
Risked NAV	158.4	3.31	523.67	14.78
<i>Price to Risked NAV (%)</i>				38%
			Current Stock Prices	C\$ 5.65
			Unrisked	C\$ 43.48
Notes				
Reserves evaluated by McDaniel and Associates Ltd. as of December 31st, 2009.				
Long term Brent flat price is US\$84.00 and UK Gas price is US\$8.00/mmBtu.				
All asset values are NPV10 After Tax and in USD unless noted.				
Two years of G&A are deducted to ensure 'going concern' costs are captured.				

Source: Orca Exploration, GMP Estimates



Exhibit 3: Risked Exploration Value

Country	Property/Prospect	Gross Resource (mmboe)	Working Int. (%)	Costs (%)	Well Costs (US\$ mm)	Overall COS (%)	Value/BOE (US\$)	Net Risked Resources (mmboe)	Risked NAV (US\$ mm)	US\$/sh (FD)	C\$/sh (FD)	Unrisked NAV (C\$/sh)	
Producing Assets													
Tanzania	SS Main (Proved Producing)	50.1	100%	100%	0.00	0%	3.46	50.1	173.44	4.65	4.90	4.90	
								50.1	173.44			4.90	
Risked Upside													
Tanzania	SS Main (Proved Non Prod.)	14.0	100%	100%	4.00	80%	3.46	11.2	38.05	1.02	1.07	1.37	
Tanzania	SS Main (Probables)	17.6	100%	100%	5.00	80%	3.46	14.0	47.59	1.28	1.34	1.71	
Tanzania	SS West	90.9	100%	100%	5.00	30%	1.70	27.3	42.85	1.15	1.21	4.36	
Tanzania	SS Main (Possibles, Contract ext)	56.4	100%	100%	5.00	50%	1.70	28.2	45.47	1.22	1.28	2.71	
Tanzania	SS North	28.3	100%	100%	5.00	60%	1.70	17.0	26.82	0.72	0.76	1.36	
Italy	Elsa-2	33.0	15%	30%	15.00	40%	12.47	2.0	22.00	0.59	0.62	1.74	
Italy	Elsa (C50 upside)	56.0	15%	30%	15.00	25%	18.26	2.1	34.97	0.94	0.99	4.33	
Italy	Adriatic - Sangiovese (d505BR/d497BR)	180.0	15%	15%	50.00	10%	7.81	2.7	14.34	0.38	0.40	5.95	
Italy	Adriatic - Pampanuto (d493BR)	50.0	15%	15%	50.00	10%	7.81	0.8	0.00	0.00	0.00	1.65	
Italy	La Tosca	7.5	70%	100%	5.00	20%	16.92	1.1	13.76	0.37	0.39	2.51	
Italy	La Tosca Upside	14.2	70%	100%	5.00	20%	16.92	2.0	29.55	0.79	0.83	4.74	
								108.3	315.41			8.90	
Gross Resources Total		597.9							158.4	488.85	13.11	13.80	37.32
Fully Diluted Shares Outstanding (mm)		37.30											
USD:CAD Exchange Rate		0.95											
Notes													
Estimates of Reserves and Resources are provided by third party engineering firms, management and GMP securities													
Overall COS = Chance of success after taking all risks into consideration including geological risk, political risk, etc													
Value/BOE is calculated from a field model in the specific fiscal regime of the host country after government take, all capex and costs have been removed, and the time value of money is applied													
Risked NAV is equivalent to Expected Monetary Value (EMV). Risked NAV = (Reward * C.o.S.) - [Capital at Risk * (1-C.o.S.)]													
Fully diluted shares outstanding = shares at period end + options + all dilutive securities													
Cost % = the difference (if any) in costs paid versus working interest. Of relevance when farm-outs or farm-ins occur													

Source: Orca Exploration, GMP Estimates

Exhibit 4: Target Price

Target Price Calculation		
Orca Exploration Group	C\$/sh	
Production Assets	4.90	
Cash/(Net Debt)	1.56	
Undeveloped Assets	-	
<u>Other Items incl G&A</u>	<u>(0.58)</u>	
Core NAV	5.87	
Risked Upside - Included from EMV Sheet	Risked	Unrisked
SS Main (Proved Non Prod.)	1.07	1.37
SS West	1.21	4.36
La Tosca	0.39	2.51
<u>Option Proceeds</u>	<u>0.29</u>	
Sum of Parts	8.83	14.11
TARGET PRICE	8.80	
Share Price	5.65	
Expected Return	56.3%	
USD:CAD Exchange Rate	0.95	
Notes:		
Target set off the Proved Reserves for SongoSongo (producing and non-prod)		
Elsa prospect is temporarily excluded due to Italian drilling ban		

Source: Orca Exploration, GMP Estimates



GMP Securities Europe LLP ("GMP") is authorised by the Financial Services Authority and is a member of the London Stock Exchange.

Company disclosures

- 1 GMP or any of its group affiliated companies has, within the previous 12 months, provided paid investment banking services or acted as underwriter to the issuer.
 - 2 GMP or any of its group affiliated companies is a market maker for the securities of the issuer.
 - 3 non-voting
 - 4 subordinate-voting
 - 5 restricted-voting
 - 6 multiple-voting
 - 7 the analyst who prepared this report has viewed the material operations of this issuer.
 - 8 the analyst who prepared this research report owns this issuer's securities.
 - 9 limited voting
 - 10 GMP or any of its group affiliated companies owns 1% or more of this issuer's securities.
- * The analyst is related to a member of the Board of Directors of [name of company], but that individual has no influence in the preparation of this report.
- **[Other disclosure]

Disclaimer

This report is intended for the sole use of the person for whom it is addressed and is distributed only so far as may be permitted by applicable law. Securities described herein may not be eligible for sale in all jurisdictions or to certain categories of investor. The information contained herein should not be relied upon by any other recipients including private clients. The information contained in this document is provided at the date of publication and is drawn from sources believed to be reliable but has not been independently verified, therefore, the accuracy or completeness of the information is not guaranteed, nor does the information purport to cover all information available on the subject, nor in providing it does GMP Securities Europe LLP ("GMP") or any group company or firm or associate assume any responsibility or liability except to the extent required by applicable law. The information contained in this report may be based on assumptions and different assumptions may produce materially different information. The analyst responsible for preparation of this report may interact with sales and trading personnel and other departments in collating and interpreting market information. Information on which this report is based is retained in accordance with regulatory requirements and may be made available upon request. This report is published for information purposes and is not to be construed as an offer to sell or a solicitation of an offer to buy any securities in any jurisdiction. Past performance is not indicative of future performance. Investors should be aware that the value of investments can rise or fall and need to be aware of these risks in exercising investment decisions. Foreign currency exchange rates can also adversely affect investment returns. GMP Research will initiate, report and cease coverage at the sole discretion of GMP and is under no obligation to update information herein.

GMP and group affiliated companies or persons or employees thereof may continue to, have a position in, or make a market in, the securities mentioned herein, including options, futures or other derivative instruments thereon, and may, as principal or agent, buy and sell such products. Griffiths McBurney Corp., an affiliate of GMP, accepts responsibility for the contents of this research subject to the foregoing. U.S. clients wishing to effect transactions in any security referred to herein should do so through Griffiths McBurney Corp. GMP will provide upon request a statement of its financial condition and a list of the names of its principals and senior officers.

Each research analyst and associate research analyst who authored this document and whose name appears herein certifies that (1) the recommendations and opinions expressed in the research report accurately reflect their personal views about any and all of the



securities or issuers discussed herein that are within their coverage universe and (2) no part of their compensation was, is or will be, directly or indirectly, related to the provision of specific recommendations or views expressed herein.

GMP Analysts are compensated competitively based on several criteria, including performance assessment criteria based on quality of research. The Analyst compensation pool is comprised of general revenue sources including that from sales and trading and investment banking. GMP policies do not allow the issuer to pay any expenses associated with a visit to its material operations by the Analyst. GMP prohibits any director, officer, employee or Canadian agent of GMP from holding any office in publicly traded companies.

Key

The GMP research recommendation structure consists of the following categories:

FOCUS BUY. Small cap stocks (defined as stocks with less than \$500 million market capitalization) in this category have a total return potential (including dividends payable) of greater than 25% and large cap stocks a greater than 20% total return potential, as well as superior qualitative and timing characteristics.

BUY. These stocks will have 15% or greater (small cap) or 10% or greater (large cap) total return potential.

SPECULATIVE BUY. These stocks will have a 30% or greater total potential return and they will have a speculative component which could be material to the return expectations.

HOLD. Small cap stocks ranked Hold will have a total return potential of 0% to 15%; large cap stocks ranked Hold will have a total return potential of 0 to 10%; and stocks that have a speculative component which could be material to the return expectations ranked HOLD will have a total return potential of 0% to 30%.

REDUCE. Companies ranked Reduce have a negative potential total return.

FOCUS REDUCE. Companies ranked Focus Reduce have a significant negative potential total return and materially compromised qualitative and timing characteristics.

Note: Analysts have discretion within 500 basis points of the upper and lower limit of each rating to determine the recommendation.

All disclosures contained in this document are governed by English law.

United Kingdom: this information is issued for the benefit of persons who qualify as eligible counterparties or professional clients and should be made available only to such persons and is exempt from the restriction on financial promotion in s21 of the Financial Services and Markets Act 2000 in reliance on provision in the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 particularly Article 19(5) for Investment Professionals and Article 49(2) for entities of prescribed net worth.

Other countries: circulation of this report may be restricted by laws and regulations in other countries and persons in receipt of this document must satisfy legal requirements in that country.

© GMP. All rights reserved. Reproduction in whole or in part without permission is prohibited. 5 Stratton Street, London W1J 8LA Tel 0044 20 7647 2800 Fax 0044 20 7647 2801.