Commentary on DNO

Presented to

TUDOR

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Summary and Conclusion

Summary and Conclusion

Summary

- DNO was founded in 1971 as an independent E&P based in Norway.
- It holds production licenses in Norway, Yemen and Iraq and holds several exploration licenses in Equatorial Guinea and Mozambique.
- DNO sold its mature fields and late life production, mostly to Lundin Petroleum in 2003/04 and is now working to a revised strategy if aggressive exploration led growth through an international (Middle East) based portfolio.
- About 94% of current production (14,700b/d) comes from Yemen and these assets tend to dominate news flow.
- This actually obscures the real value future in the company that is Iraq and Norwegian Sea.
- A degree of window dressing in Yemen may help to slow down an inevitable decline but the real interesting upside is elsewhere.
- Current reserves are as follows:
 - Reserves and Resources = 151MMbbl
 - Reserves class 1-3 (proven-possible) = 84MMbbl
 - Resources = 67MMbbl
- Resource values are also based on the same DCF models but we introduce a development risk element as these projects are in various planning phases as follows:
 - In planning phase (class 4): Iraq
 - Development likely (class 5): Norway
 - Under evaluation (class 7): Yemen
- Beyond the reserves and resources there may be upward of net 700MMbbl of unrisked resource potential, mostly in Iraq.
- In our opinion the company is downplaying this potential intentionally due to the sensitive nature of the ongoing negotiations between the Kurdish and Iraqi Petroleum Ministries on licensing and revenue sharing negotiations.
- We have not considered these commercial/legal risk factors in our valuations – either DNO goes ahead or it doesn't and for our valuations we are Kurdish bulls!
- The company has a very active exploration programme in 2007 with al least 24 wells drilling in Yemen and the North Sea (net cost \$146MM).
- Development drilling will continue in Iraq with upward of 18 development wells planned + infill drilling in Yemen (net \$114MM)

Conclusion

- DNO is a pleasure to analyse because the company is as forthcoming as it can be with data relating to reserves, production and fiscal terms.
- This is an important point as our valuation is less likely to contain surprises and this is positive factor underpinning our valuation.
- But there may be a surprise from Iraq as follows:
 - Tawke field coming on stream now, 107MMbbl gross 2P (shallow)
 - 18 production additional wells drilling to take production to 50,000b/d
 - Reserve based on conservative 20% decline
 - If reservoir is better quality (as third parties believe)
 - reserve upgrades on the existing field may be in order
 - deeper Cretaceous formations have yet to be exploited in Tawke
 - Surrounding structures remain un appraised.
 - Basically it is very early days in Iraq and upside is aplenty.
- Our view on Yemen is that the region is in steady decline, subject to a few infill wells and some quite risky exploration planned this year to the south (edge of the mapped basin) – we won't hold our breath.
- The acreage in Norway to the North (Barents and Norwegian Sea) is also impressive, particularly in Goliat (250MMbbl development by ENI) and this field should provide excellent cash flow from 2010 onwards.
- Our valuation works out thus:

	Net Reserve	Ne	t Risked Va	lue
Core Value	84MMbbl	\$607MM*	\$7.2/boe	NOK 2.7
Contingent Value	67MMbbl	\$750MM	\$11.3/boe	NOK 5.1
Exploration Value	702MMbbl	\$602MM	\$0.9/boe	NOK4.1
	853MMbbl	\$1960		NOK12 0

* Asset value excludes net debt -\$217MM, share value includes this)

- Most (80%) of core value is in Iraq and the majority (90%) of Contingent value is in Norway.
- About (58%) of exploration value is in Iraq, (34%) in Norway and the remainder (7%) in Yemen.
- Taking account that virtually all the valued exploration potential is based on firm drilling in 2007 there is a valid case for EMV based valuation:

	Net Reserve	Ne	t Risked Va	lue
Core Value	84MMbbl	\$607MM*	\$7.2/boe	NOK 2.7
Contingent Value	67MMbbl	\$750MM	\$11.3/boe	NOK 5.1
Exploration Value	702MMbbl	\$1688MM	\$2.4/boe	NOK11.5
	853MMbbl	\$3045		NOK19.2

• A rare example of a substantial asset based company with high value upside.

Yemen

Field Sizes



Geology

General

• The petroleum system is related to an Upper Jurassic source rock sequence essentially deposited as deep marine deposits in a rifting setting.

Source

 The Upper Jurassic (Kimmeridgian) source rocks of the Madbi Formation including both Madbi and Lam Members are organic-rich black shales deposited in the deeper portions of rifts in the Late Jurassic.

Maturation

 Source rocks began generating in the central rift basin in latest Cretaceous to earliest Paleogene time and the process was largely completed by the end of Paleogene time.

Migration

Oil and gas migrated along faults to horst blocks within these various basins. Numerous horst uplifts occur; however migration resulted in hydrocarbon accumulations in those areas where sealed by either a Jurassic salt or by Early Cretaceous carbonate.

Reservoir

- In the western basins (Ma'Rib/Al-Jawf), the reservoirs are dominantly Upper Jurassic (Kimmeridgian, Tithonian) clastics of the Amran Group (Safir Member), or lesser amounts of carbonates in the Amran Group. The Safer/Alif/Yan Member clastics prograded from the northwest of the Ma'Rib Basin and diminish in thickness and content to the southeast; they are largely absent in the southern Shabwah Basin. In the Masila/Jeza Basin, the Early Cretaceous estuarine sandstones of the Qishn Formation (Berremian/Aptian) are the primary reservoir.
- Jurassic and Cretaceous units sit on basement in some areas and some oil appears to pass into the basement via faulting and fractures (not well understood)

Traps and Seal

Salt of the Upper Jurassic (Tithonian) Shabwa Member are the critical seal within the Ma'Rib, Al-Jawf, and Shabwah basins, a secondary seal are evaporites of the Avad and Nayfa Formations. The Qishn Carbonate Member (Aptian) provides the seal for the underlying Qishn Clastic Member in the Masila Basin.

Source: USGS

Yemen



Source:



- DNO acreage in the Masilla Jeza basin off the Mukalla high. .
- Production from Cretaceous reservoir on basement . .
 - Area well known for hydrocarbons
- Main producing fields are:

- Block 32: Tasour + Godah
- Block 53: Sharyoof + Bayoot/Hekma
- Block 43: Nabrajah
- . Basement production is poorly understood, hence the recent reserve downgrade (gross 68MMbbl to 24MMbbl) following reduction in well productivity.

Yemen Activity







Source: Hulf Hamilton

Yemen Current Activity

Tasour (6MMbbl gross)

Declining production may be slowed by minor infill drilling in 2007 (6MMbbl).

Godah (9MMbbl gross + 13MMbbl upside)

 Discovered in 2006 and bough quickly on stream with 3 wells – more planned in 2007 giving additional upside of 13MMbbl gross.

Sharyoof (18MMbbl gross)

Infill wells may slow decline

Bayoot & Hekma (22MMbbl gross)

- 3 recent oil discovery wells, testing 3rd well and trucking production (growing).
- We carry a gross 10,000b/d peak this year before steady decline.

Nabrajah (22MMbbl gross + 35MMbbl upside)

- Downgrade from 68MMbbl to 22MMbbl prompted by unpredictable behavior of basement play – we carry 35MMbbl upside for some basement reserves being reinstated.
- It may be possible that further wells reinstate reserves but for now a 12,000b/d gross peak seems appropriate for us before steady decline

Exploration (324MMbbl gross unrisked upside)

- (2) Key wells on Blocks 72/47 this year with large 160MMbbl prospects that we risk 20%.
- Higher risk as we feel reservoir potential diminishes to the south.
- Other wells on Blocks 32 (3), 43(2) and 44(3) total 13 exploration wells in 2007

Yemen Reserves

	WI		Gross	Risk	Va	lue			
	(%)		Reserves (Mmboe)	Reserves	Resources (MMboe)	Total	Factor (%)	(\$MM)	(\$/bbl)
Yemen	39%	Tasour	6.00	2.3		2.3		7	3.12
	39%	Godah	9.00	3.5		3.5		12	3.30
	24%	Sharyoof	17.99	4.4		4.4		15	3.42
	24%	Bayoot/Hekma	22.09	5.4		5.4		18	3.40
	57%	Nabrajah	21.85	12.4		12.4		42	3.36
Reserve Value				28		28		94	3.4
				۱ Decertion	VI Reserves	Total	Risk	Va	lue
				Reserves	(MMboe)	Total	(%)	(\$MM)	(\$/bbl)
Yemen	57%	Nabrajah	35.24		20	20.0	60%	40	2.02
	39%	Godah	12.84		5	5.0	60%	10	1.98
Resource Value					25	25		50	2.0
Yemen	34%	Block 72	162.00		55	55	20%	34	0.6
	35%	Block 47	162.00		57	57	20%	37	0.7
Exploration Val	ue				112	112		72	0.6
Total Value				28	137	165		216	1.3

Norway

Goliat



Commentary

Goliat Development (15%)

- Operated by ENI and partner Statoil, DNO has a 15% working interest in this 250MMbbl 2P field.
- Exploration well 7122/7-1 was spudded on 16 September 2000 with the semi-submersible installation "Transocean Arctic" and drilled to TD at 1524 m RKB, 148 m into the Middle-Late Triassic Snadd Sandstone Formation.
- The top of the main reservoir in the Kapp Toscana Group was found at 1102 m, 1 m below the prognosis. The reservoir was oil bearing.
- Four appraisal wells have been drilled since and the field is expected to come onstream in 2010.
- A development plan is likely to be announced sometime in 2007 and we estimate it will likely take 3 years to first oil.
- Our valuation is based on the \$/bbl estimate from the other Norwegian fields, discounted to take account of the time delay.

Goliat Upside (15%)

• We carry a gross 150MMbbl prospect, press report sketchy but it looks as if an oil discovery may have been made, hence our low 80% risk factor.

Norwegian Reserves Classification





Norway 2007 Drilling programme



- 11 -

Enoch



Enoch (as part of the Paladin UK portfolio)

DNO has a small 2% working

(Talisman operated) field.

interest in the Enoch field, soon

to start producing via the Tartan

Enoch

- Blocks and production licenses Block 15/5 production license 048 B. Awarded 2001.
- The Norwegian part of the field is 20.00%, the British part is 80.00%.
- Discovered 1985
- Development approval 01.07.2005
- Talisman Energy (after Paladin acquisition).
- Licensees
 - DONG Norge AS 1.86%
 - DNO AS 2.00%
 - Statoil ASA 11.78%
 - Total E&P Norge 4.36%
 - Bow Valley Petroleum (UK) Limited 12.00%
 - Dana Petroleum (E & P) Limited 8.80%
 - Dyas UK Limited 14.00%
 - Lundin North Sea Limited 1.20%
 - Talisman 24.00%
 - Petro-Canada UK Limited 8.00%
 - Roc Oil (GB) Limited 12.00%
- Recoverable reserves Original: 15MMbbl Gross (0.3MMbbl net to DNO). •
- Investment Total investment is expected to be NOK 0.2 billion (2006 • values) NOK 0.1 billion had been invested at 31.12.2005 (2006 values)
- Development: The field will be developed with subsea facilities placed on • the British continental shelf and connected to the Tartan field.
- Recovery strategy: The field will be produced by pressure depletion, but water injection may be implemented later if necessary.
- Transport: The well stream from Enoch will be transported to Brae A for • processing before the oil is transported onwards in the existing pipeline to Cruden Bay. The gas will be sold to Brae.
- Status: The development plan was approved by Norwegian and British authorities on 01.07.2005. Production start-up is planned for 2Q 2007.

Glitne

Glitne field over Petrojarl I FPS



Source: Statoil

Glitne

- Block 15/5 production licence 048 B. Awarded 2001. + Block 15/6 production licence 029 B. Awarded 2001.
- Discovered 1995
- Development approval 08.09.2000 by the Crown Prince Regent in Council
- On stream 29.08.2001
- Operator Statoil ASA
- Licensees
 - DONG Norge AS 9.30%
 - DNO 10.00%
 - Statoil ASA 58.90%
 - Total E&P Norge AS 21.80%
- Remaining Gross reserves 9MMbbl (0.9MMbbl net to DNO)
- Production Estimated production in 2006:
 Oil: 10,000 barrels/day
- Investment Total investment is expected to be NOK 1.7 billion (2006 values) NOK 1.7 billion had been invested as of 31.12.05 (2006 values)
- Development:

Glitne is an oilfield that lies 40 kilometers northeast of the Sleipner area. The sea depth in the area is 110 meters. The development consists of four production wells and a water injection well tied back to the floating production, storage and offloading vessel, Petrojarl 1.

Reservoir:

The reservoir consists of several separate sand sheets of deep-marine fan deposits in the upper Heimdal formation.

Recovery strategy:

Associated gas is used for gas lift in the wells, while excess gas is reinjected into the reservoir.

Transport:

Oil from Glitne is processed and stored on board the production vessel. The oil is exported using shuttle tankers.

Status:

Late life field. Consideration is being given to drilling two new wells on the Glitne flanks. Increased reserves from these wells could extend production through 2009. Interpretation of reprocessed seismic will provide the basis for new well targets and possible deposits in the area.

Iraq

Iraqi Kurdistan Introduction

Introduction

- Even though DNO appears comfortable on its title to acreage in Kurdistan the precise production terms are still hazy (similar to Yemen we are told by DNO), and we are unclear about a final agreement between the Kurdish and Baghdad administrations on revenue sharing.
- All of this is likely forcing DNO to keep a low profile on its producing field and upside potential but we think all are extremely attractive.

Commercial

In an article published by Reuters on 17th January 2006 headlined *Iraq leaders agree draft oil law*, a spokesman of the Ministry for Oil in Baghdad stated, "The committee <u>finalized</u> the draft of the law last night [i.e. 16th January]. It was approved <u>unanimously</u> and it will go before the cabinet early next week".

As far as the Kurdistan Regional Government (KRG) is concerned, the draft law has not been "finalized unanimously", therefore the claim made by the oil ministry spokesman, as reported by Reuters, is inaccurate and misleading.

The last draft that the KRG was in agreement with was presented to Prime Minister Al-Maliki for his review on 17th December 2006. That draft allows the KRG to negotiate and sign new contracts within the Region and to receive its faire share of Iraq's oil revenue, to be guaranteed and regulated by law. The draft acknowledges that the KRG shall be the competent authority to review its own previous contracts to make them consistent with the law. Any further material changes to that draft will require the KRG's consent.

Although the process of drafting the oil law is nearing completion, the important annexes to the law are still pending. Also, there are three associated laws (the revenue sharing law, the Iraq National Oil Company (INOC) charter law, and a law to define the oil ministry's new role) which must be drafted and agreed upon before the whole package can be regarded as being final.

Therefore, the position can only be finalized once all these matters are settled and the KRG looks forward to being among the first to make a formal announcement when this is done. -18^{th} Jan 2006

Source: Kurdistan Government

Technical

General

- Overall the positioning of the DNO license off the prolific Zagros fold belt to the west is initially a disappointment.
- Super huge fields like Kirkuk are found along the Zagros that trends down into Iran where BP first made its discoveries in the 1930's.
- But after speaking to Cambridge Geologists (Cambridge Carbonates Ltd¹) we have now formed a view that the DNO licenses are in an area of lower structural activity (e.g.smaller trap sizes), but the prehistoric position to the east is on a reefal structure with much better reservoir potential.
- We have verified this point by examining data from the Addax field (Taq Taq) to the south on the same trend.
 - Basically Zagros wells produce at high initial rates from fractures in the carbonate and then decline quickly.
 - Tawke and Taq Taq wells produce at even higher initial rates and so far are not showing signs of decline.
- This more stable production on DNO acreage may be interpreted as oil producing from primary porosity rather than secondary fracture based porosity and this is very positive for productivity.

Our Analysis

- We have examined surrounding field productivity to construct our own well profiles for the Tawke field.
- We have interpreted the descriptions from DNO as to the upside potential on the Tawke license and risked accordingly and based upside valuations on Tawke \$/bbl metrics.

¹ Andrew Horbury consulted for DNO in the early stages of exploration in Kurdistan and is an acknowledged expert in the area.

Iraq Acreage



Regional Setting



Regional Geology

- Kurdistan is a geologically land straddling the zone between the colliding Eurasian and African tectonic plates.
- As a result the Zagros mountains and Kurdistan-the point of this collision-are being compressed and pushed upward several inches a year.
- The geologic province of the Kurdish foothills which faces the Arabian platform, is basically a continuation of the same land formation that lies farther south under the Persian Gulf-a remnant of the ancient Tethys Sea with its wealth of hydrocarbons.
- The waters of the Persian Gulf washed the Kurdish foothills until very recently in geologic terms, when they joined the Indian Ocean to the Mediterranean Sea and the Atlantic, separating Eurasia from Africa and Arabia. The petroleum-bearing geologic strata of the Persian Gulf thus ought to be credited for the wealth of petroleum and natural gas deposits in Kurdistan.
- Massive volcanic outpourings have resurfaced large portions of Kurdistan in the north and Northeast. The greater and lesser Ararat peaks, as well as Mt. Nimrod (or Nimrut Dâgh) on the shores of Lake Vân, are three prominent results of this active geology.

Field Sizes



Tertiary Geology



Northern Iraq Stratigraphy

Tertiary (shallow) Geology

Description

This assessment unit contains both Tertiary carbonate and clastic reservoirs within the Zagros fold belt and foreland. Carbonate reservoirs are more common to the east nearer the Zagros thrust belt and are the dominant reservoir. The Total Petroleum System was considered to be charged by Cretaceous source rocks although there is uncertainty as to mixing of Jurassic and Cretaceous oils in the area.

Source Rock

Several source rock intervals have been identified dominated by Lower Cretaceous Shales including Hauterivian Ratawi Shale, Albian Zubair, Aptian Burgan (Nahr Umr), Shuaiba, and Mauddud Formations. Upper Cretaceous source rocks include Cenomanian Rumaila and Mishrif Formations.

Generous source rock potential

Migration

Although expulsion may have started in Late Cretaceous, significant migration commenced probably no earlier than latest Oligocene/earliest Miocene and continues to present. Migration into the Zagros fold and thrust belt has permitted extensive oil and gas seeps and tar belt formation in the eastern Zagros thrust. The eternal flame at Kirkuk is an example of the ongoing charge and seepage of petroleum on the east flank of the petroleum system. - Migration timing confirms shallow (tertiary) and deeper

(Cretaceous) potential.

Reservoir

Exposed carbonate banks, high-energy shoals, of the Asmari Formation (Oligocene/Miocene) are important reservoirs in Iran and Iraq. Porous, coralline, reefal limestones of the Kirkuk Group (Oligocene) are also important reservoirs. Clastic reservoirs such as those in the Lower Fars Formation (Miocene) are subordinate to carbonate reservoirs.

- shallow clastic reservoir quality mediocre, deeper carbonates better

Trap and Seal

Miocene salt and anhydrite seals of the Fars and Gashsaran Formations in the Zagros fold belt are critical blocks to vertical migration in the thrust belt structures of Iraq and Iran. The Fars Group reaches thicknesses of 5,000 m; however, the salt interval is generally several hundred meters thick.

- thick reservoir potential (large fields)

Exploration Upside



Commentary

- The discovered reserves are shown in green above, based on the drilling results to date and this is approximately 107MMbbl gross.
 - Tawke-1: 5000b/d
 - Tawke 1A: 3840b/d, deeper Cretaceous carbonates did not produce
 - Tawke 2:
 - Tawke 4: 8500b/d
- Potential upside may be as follows:

A lateral extensions to Tawke tertiary: Gross 77MMbbl (50% chance of success)

B Deeper Cretaceous formations: Gross 200MMbbl (33% chance of success)

C Additional structures on Block: Gross 500MMbbl (20% chance of success)

Addax – Taq Taq Analog

Taq Taq Location



Iraq

- The Taq Taq field is located 60 kilometers northeast of the Kirkuk oil field and the adjacent city of Kirkuk and 80 kilometers northwest of the city of Sulaimaniyah. The gross field area of Taq Taq is approximately 169,000 acres (680 km2).
- The Taq Taq License Area is in the Zagros basin where large, elongated anticlines dominate, field was discovered in 1978 by the drilling of the first well, which was drilled to a depth of approximately 4,000 m.
- The well was drilled on the crest of the structure and is reported to have tested 47° API oil at rates of up to 5,000 bbl/d, indicating a gross oil column in excess of 470 m in a Cretaceous reservoir.
- The second Taq Taq well, drilled in 1978 close to the first well, was a shallow well and tested oil at a reported rate of 1,000 bbls/d at a depth of approximately 600 meters, with oil of a medium gravity (24° API).
- This well is an analog for the shallow structures in Tawke.
- Current Gross Reserves are 89MMbbl 2P and 147MMbbl 3P from estimated 1200MMbbl-2700MMbbl oil in place estimates and this implies a 7% RF for the 2P.
- Delivery is via daily tanker truck to a local small-scale oil refinery and a cement factory.
- All current oil production is provided to the local government under the terms of the Taq Taq PSA.
- The objectives of the first phase of development are to establish and secure productive capacity of approximately 20 mbbls/d as well as collecting subsurface data to prepare for future full field development.
- Based on initial mapping of the Taq Taq structure, Addax Petroleum's preliminary range estimate of oil in place is approximately 900 mmbbls to 3,500 mmbbls with an expected target of 2,100 mmbbls.
- Addax Petroleum and Genel Enerji, together with the Kurdistan Regional Government, are currently studying a proposed 255 km pipeline through the Kurdistan Region of Iraq which would permit the export of oil to Silopi in Turkey, for delivery to Ceyhan on the Mediterranean coast of Turkey.
- Capital expenditures for the Taq Taq Property are budgeted to be \$51 million in 2006. Under the terms of the Genel Farm-in, Addax Petroleum will fund all initial phase expenditures up to a maximum of \$74 million.

Conclusion: Taq Taq appears to prove that 100MMbbl+ fields are present off the Zagros fold belt and sustainable well productivity of similar gravity oil of 100b/d is demonstrable.

Addax Taq Taq Analog



Taq Taq field seismic



Taq Taq-4 Core



Ain Zalah Analog



Valuation

Production Assumptions



Yemen net oil production

Iraq (Tawke) net liquids production





 $co^{a}co^{b}co^{$



Iraq Upside



Tawke Production cases

Tawke Upside 1Initial rate decline	3.00 20%																												
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	TOTALS
wells	0.00	3.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		9.00	7.36	6.02	4.92	4.02	3.29	2.69	2.20	1.80	1.47	1.20	0.98	0.80	0.66	0.54	0.44	0.36	0.29	0.24	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.7
			45.00	36.79	30.08	24.60	20.11	16.44	13.44	10.99	8.99	7.35	6.01	4.91	4.02	3.28	2.68	2.20	1.79	1.47	1.20	0.98	0.80	0.66	0.54	0.44	0.36	0.29	89.6
																													0.0
Totals	0.00	9.00	52.36	42.81	35.00	28.62	23.40	19.13	15.64	12.79	10.46	8.55	6.99	5.72	4.67	3.82	3.12	2.55	2.09	1.71	1.40	0.98	0.80	0.66	0.54	0.44	0.36	0.29	107.3
Tawke Upside 2Initial rate	3.00																												
decline	20%																												
wells	0.00	3.00	18.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	0.00	9.00	7.37	6.03	4.94	4.04	3.31	2.71	2.22	1.82	1.49	1.22	1.00	0.82	0.67	0.55	0.44	0.36	0.29	0.24	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.8
			54.00	44.21	36.20	29.64	24.26	19.87	16.26	13.32	10.90	8.93	7.31	5.98	4.90	4.01	3.28	2.69	2.20	1.80	1.48	1.21	0.99	0.00	0.00	0.00	0.00	0.00	107.1
				30.00	24.56	20.11	16.46	13.48	11.04	9.04	7.40	6.06	4.96	4.06	3.32	2.72	2.23	1.82	1.49	1.22	1.00	0.82	0.00	0.00	0.00	0.00	0.00	0.00	59.1
Totals	0.00	9.00	61.37	80.24	65.70	53.79	44.04	36.06	29.52	24.17	19.79	16.20	13.26	10.86	8.89	7.28	5.95	4.87	3.99	3.26	2.67	2.03	0.99	0.00	0.00	0.00	0.00	0.00	183.9

- DNO plans to drill 18 appraisal/production wells on Tawke in 2007 and we estimate that 3 of these could be regarded
- initial rates of 3000b/d per well with 20% exponential
- This builds up to 107MMbbl gross recoverable from 2007-2033 (59MMbbl net to DNO) - and we carry this in our core
- We carry an upside case based on additional oil in place (e.g. extension of the field laterally or stratigraphically).
- On this basis we assume that more wells are productive in 2008 (18 not 15) and a further 10 wells are drilled in 2009.
- On this basis and assuming the same productivity, gross 2P reserves of 184MMbbl may be achievable and we carry this
- If stabilized initial rates are significantly higher than 3000b/d then reserves remain the same but valuations are likely to increase.

DNO Base Case Valuation

INPUTS 2007 \$/£ Exchange Rate 1.9 2007 \$/NOK 6.16 Exploration value \$0.50/boe No undiluted Shares 904.9 No Diluted (inc 4.8MM options) 909.7

OUTPUTS

	wı		v	VI Reserves		Risk			Value	
			Reserves	Resources	Total	Factor				
	(%)			(MMboe)		(%)	(\$MM)	(\$/bbl)	(NOK)	(per share)
Iraq	55%	Tawke	55.0		55.0		484	8.80	2982	3.30 NOK
Yemen	39%	Tasour	2.3		2.3		7	3.12	45	0.05 NOK
	39%	Godah	3.5		3.5		12	3.30	71	0.08 NOK
	24%	Sharyoof	4.4		4.4		15	3.42	93	0.10 NOK
	24%	Bayoot/Hekma	5.4		5.4		18	3.40	113	0.12 NOK
	57%	Nabrajah	12.4		12.4		42	3.36	257	0.28 NOK
Norway	10%	Glitne	0.9		0.9		22	24.64	137	0.15 NOK
2	2%	Enoch	0.3		0.3		7.1	24.64	44	0.05 NOK

Financial Adjustments						
Net Debt					-1336	-1.48 NOK
Options					-7	-0.01 NOK
Reserve Value	84	84	607	72	2399	2 7 NOK

Reserves	WI Reserves Resources	Total	Risk Factor			Value	
	(MMboe)		(%)	(\$MM)	(\$/bbl)	(NOK)	(per share)
	4.0	4.0	80%	28	7.04	173	0.19 NOK
	37.5	37.5	80%	672	17.92	4140	4.58 NOK
	20	20.0	60%	40	2.02	249	0.27 NOK
	5	5.0	60%	10	1.98	61	0.07 NOK
	67	67		750	11.3	4623	5.1 NOK
	42	40	F00/	10/		1140	1.04 NOK
	42	42	50%	186	4.4	1143	1.26 NOK
	110	110	33%	114	1.0	704	0.78 NOK
	275	275	20%	138	0.5	847	0.94 NOK
	55	55	20%	28	0.5	170	0.19 NOK
	57	57	20%	28	0.5	175	0.19 NOK
	20	20	33%	10	0.5	63	0.07 NOK
	25	25	33%	12	0.5	76	0.08 NOK
	11	11	33%	6	0.5	34	0.04 NOK
	41	41	33%	21	0.5	128	0.14 NOK
	4	4	33%	2	0.5	12	0.01 NOK
	21	21	33%	11	0.5	65	0.07 NOK
	23	23	33%	185	8.2	1138	1.26 NOK
	18	18	20%	9	0.5	55	0.06 NOK
				-146		-900	-0.99 NOK
	702	702		602	0.9	3710	4.1 NOK
84	769	853		1960	2.3	10731	11.9 NOK
	Reserves	WI Reserves Resources (MMboe) 4.0 37.5 20 5 20 5 20 5 20 5 20 5 20 5 20 5 57 20 25 57 20 25 57 20 25 11 41 4 21 23 18 702 84	WI Reserves Reserves Total Resources (MMboe) 4.0 4.0 37.5 37.5 20 20.0 5 5.0 67 67 42 42 110 110 275 255 57 57 20 20 25 25 111 11 41 41 41 41 41 41 41 11 11 11 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 4 41 4 41 4 41 4 42 4	WI Reserves Reserves Resources Resources (MMboe) Total Total Risk Factor (%) 4.0 4.0 80% 37.5 37.5 80% 20 20.0 60% 5 5.0 60% 5 5.0 60% 67 67 67 42 42 50% 110 110 33% 275 275 20% 55 55 20% 57 57 20% 20 20 33% 275 275 20% 57 57 20% 20 20 33% 21 21 33% 23 23 33% 18 18 20% 18 18 20%	WI Reserves Reserves WI Reserves Resources (MMboe) Total Total Risk Factor (%) Kisk Factor (\$MM) 4.0 4.0 80% 28 37.5 37.5 80% 672 20 20.0 60% 40 5 5.0 60% 10 67 67 750 42 42 50% 186 110 110 33% 114 275 275 20% 28 57 57 20% 28 57 57 20% 28 20 20 33% 10 25 25 33% 10 25 25 33% 12 11 11 33% 21 4 4 33% 2 21 21 23 23 23 23 33% 11 23 23 33% 14 20% 9	WI Reserves Reserves Wi Reserves Resources (MMboe) Total Risk Factor (%) Kisk Factor (\$MMb) (\$/bbl) 4.0 4.0 80% 28 7.04 37.5 37.5 80% 672 17.92 20 20.0 60% 40 2.02 5 5.0 60% 10 1.98 67 67 750 11.3 7 5 5.0 60% 10 1.98 67 67 750 11.3 7 42 42 50% 186 4.4 110 110 33% 114 1.0 275 275 20% 28 0.5 55 55 20% 28 0.5 20 20 23% 10 0.5 25 25 33% 12 0.5 111 11 33% 2 0.5 21 21 23% 23 0.5	Will Reserves Resources Resources Total Risk Factor (%) (%MM) (%bbl) (NOK) 4.0 4.0 80% 28 7.04 173 37.5 37.5 80% 672 17.92 4140 20 20.0 60% 40 2.02 249 5 5.0 60% 10 1.98 61 67 67 750 11.3 4623 410 110 133% 114 1.0 704 42 42 50% 186 4.4 1143 110 110 33% 114 1.0 704 275 275 20% 28 0.5 170 57 57 20% 28 0.5 175 200 20 33% 12 0.5 63 25 25 33% 12 0.5 128 4 4 33% 2 0.5

BLUELAKE ENERGY

Commentary

- In our valuation we have followed company guidelines in assigning:
 - Reserves and Resources = 151MMbbl
 - Reserves class 1-3 = 84MMbbl
 - Resources = 67MMbbl
- All of the Reserve valuations are based on DCF based valuations using a \$50/bbl Brent with various local discounts to this.
- Resource values are also based on the same DCF models but we introduce a development risk element as these projects are in various planning phases as follows:
 - In planning phase (class 4): Iraq
 - Development likely (class 5): Norway
 - Under evaluation (class 7): Yemen
- Exploration values are based on straight \$0.5/boe applied to the net unrisked prospect size, except:
 - Tawke Tertiary and Deep
 - Goliat West

where we have used EMV because of greater certainty about the exploration/appraisal

- Clearly the portfolio is slanted towards exploration and appraisal success, particularly.
 - Goliat
 - Takwke deep
 - Takwe other prospects
- But the unusual element of the DNO exploration portfolio is that most of the exploration we have listed will actually drill in 2007 and so there is a strong case to model exploration using the EMV methodology (see next page).

Note working interest reserves but entitlement based valuation.

DNO Upside Valuation

INPUTS

2007 \$/£ Exchange Rate	1.9
2007 \$/NOK	6.16
Exploration value	EMV
No undiluted Shares	904.9
No Diluted (inc 4.8MM options)	909.7

OUTPUTS

	WI		۷ Reserves	VI Reserves Resources	Risk Total Factor		Value						
	(%)			(MMboe)		(%)	(\$MM)	(\$/bbl)	(NOK)	(per share)	•		
Iraq	55%	Tawke	55.0		55.0		484	8.80	2982	3.30 NOK			
Yemen	39%	Tasour	2.3		2.3		7	3.12	45	0.05 NOK			
	39%	Godah	3.5		3.5		12	3.30	71	0.08 NOK			
	24%	Sharyoof	4.4		4.4		15	3.42	93	0.10 NOK			
	24%	Bayoot/Hekma	5.4		5.4		18	3.40	113	0.12 NOK			
	57%	Nabrajah	12.4		12.4		42	3.36	257	0.28 NOK			
Norway	10%	Glitne	0.9		0.9		22	24.64	137	0.15 NOK			
-	2%	Enoch	0.3		0.3		7.1	24.64	44	0.05 NOK			
Financial Adjus	tment	ts											
Net Debt									-1336	-1.48 NOK			
Options									-7	-0.01 NOK			
Reserve Value			84		84		607	72	2399	2 7 NOK	2 7 NOK		

				VI_Reserves		Risk			Value		
			Reserves	Resources (MMboe)	Total	Factor (%)	(\$MM)	(\$/bbl)	(NOK)	(per share)	
Iraq	55%	Tawke		4.0	4.0	80%	28	7.04	173	0.19 NOK	
Norway	15%	Goliat		37.5	37.5	80%	672	17.92	4140	4.58 NOK	
Yemen	57%	Nabrajah		20	20.0	60%	40	2.02	249	0.27 NOK	
	39%	Godah		5	5.0	60%	10	1.98	61	0.07 NOK	
Resource Value				67	67		750	11.3	4623	5.1 NOK	5.1 NOK
Iraq	55%	Tawke		42	42	50%	186	4.4	1143	1.26 NOK	2.53 NOK
	55%	Tawke Deep		110	110	33%	114	1.0	704	0.78 NOK	2.33 NOK
	55%	Tawke other		275	275	20%	182	0.7	1119	1.24 NOK	6.18 NOK
Yemen	34%	Block 72		55	55	20%	34	0.6	211	0.23 NOK	1.17 NOK
	35%	Block 47		57	57	20%	37	0.7	231	0.25 NOK	1.27 NOK
Norway	30%	Lie		20	20	33%	168	8.2	1032	1.14 NOK	3.42 NOK
-	30%	Torkildsen		25	25	33%	202	8.2	1245	1.38 NOK	4.13 NOK
	35%	Draupne		11	11	33%	92	8.2	567	0.63 NOK	1.88 NOK
	30%	Ragnarrock		41	41	33%	340	8.2	2095	2.31 NOK	6.94 NOK
	20%	Gere/Freke		4	4	33%	33	8.2	202	0.22 NOK	0.67 NOK
	30%	Midgard West		21	21	33%	172	8.2	1062	1.17 NOK	3.52 NOK
	15%	Goliat West		23	23	33%	185	8.2	1138	1.26 NOK	3.77 NOK
	30%	Natalia		18	18	20%	89	4.9	546	0.60 NOK	3.02 NOK
Exploration Cos	t (200	07)					-146		-900	-0.99 NOK	-0.99 NOK
Exploration Val	ue			702	702		1688	2.4	10395	11.5 NOK	39.8 NOK
Total Value			84	769	853		3045	3.6	17417	19.2 NOK	48 NOK

Commentary

- Identical analysis for reserve and Resource values but modified Exploration value based on EMV's.
- EMV is the risked reserve x \$/bbl of discovered field less exploration cost.
- This methodology values the exploration at nearly 3X the straight \$0.5/boe method and may be justified in this case because the drilling is almost certain to take place for most of the exploration portfolio.
- We have also shown the unrisked value of each exploration prospect – e.g. what it would be worth as a discovery.
- DNO will drill and participate in at least 24 exploration wells in 2007 (excluding Iraq) – if 1 in 10 is a discovery (3 wells) then this could add at least NOK6.0, even based on the smallest prospects shown left.

Note working interest reserves but entitlement based valuation.