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2 IN THE UNITED STATES DISTRICT COURT
DISTRICT OF NEW JERSEY

3 Civ. No. 04-3749 (JAP)
(Consolidated Cases)

4 Hon. Joel A. Pisano

-----X

5 IN RE ROYAL DUTCH/SHELL TRANSPORT
SECURITIES LITIGATION

6 -----X

7

January 10, 2007

8

10:07 a.m.

9

10 Videotaped deposition of BRIAN J.
11 WARD, taken by the Lead Plaintiff and the
12 Class, at the offices of LeBoeuf, Lamb,
13 Greene & MacRae LLP, 1 Minster Court,
14 London, England, before Gail F. Schorr, a
15 Certified Shorthand Reporter, Certified
16 Realtime Reporter and Notary Public
17 within and for the State of New York.

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2 A P P E A R A N C E S:

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4 Class

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7 -and-

DAVID J. WELCH, ESQ.

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2 A P P E A R A N C E S (Continued):

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17 Attorneys for Sir Philip Watts
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19 BY: AIMEE D. LATIMER, ESQ.

20
ALSO PRESENT:

21
CHRISTINE MARTINEZ, Legal Assistant

22 Bernstein Liebhard & Lifshitz, LLP

23 PHILLIP HILL, Video Operator
Action Legal Video, Inc.

24

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0004

1 BRIAN J. WARD
2 THE VIDEO OPERATOR: This is
3 the beginning of tape 1, volume 1. This
4 is the video operator speaking, Mr.
5 Phillip Hill of Merrill Corp. London.
6 Today is January 10, 2007. We are at the
7 offices of LeBoeuf, Lamb, Greene & MacRae
8 in London, to take the video deposition
9 of Brian Ward. This is In Re Royal
10 Dutch/Shell Transport Securities
11 Litigation. This is being heard in the
12 United States District Court, District of
13 New Jersey, Case Number Civ. 04-3749
14 (JAP).

15 Will counsels present please
16 introduce themselves for the record.

17 MS. MARSHALL: Caroline
18 Marshall, Bernstein Liebhard &
19 Lifshitz, on behalf of Peter M. Wood,

20 the lead plaintiff and the class.

21 MR. WELCH: David Welch,
22 Bernstein Liebhard & Lifshitz, also on
23 behalf of plaintiff.

24 MR. MACFALL: Timothy
25 MacFall, Bernstein Liebhard & Lifshitz,

0005

1 BRIAN J. WARD

2 on behalf of plaintiffs and the class.

3 MR. PLATT: Charles Platt,
4 Shell International B.V., on behalf of
5 the Shell corporate defendants.

6 MR. CLARK: Christopher J
7 Clark, LeBoeuf, Lamb, Greene & MacRae,
8 for the Shell corporate defendants and
9 the witness, Mr. Ward.

10 MR. FERRARA: Ralph Ferrara,
11 LeBoeuf, Lamb, Greene & MacRae, on
12 behalf of Shell Transport & Trading,
13 Royal Dutch/Shell and our witness
14 today, Brian Ward.

15 MR. CORSON: Nicholas
16 Corson, Hogan & Hartson, on behalf of
17 KPMG Accountants NV.

18 MS. LATIMER: Aimee Latimer,
19 Mayer Brown Rowe & Maw, on behalf of
20 defendant Sir Philip Watts.

21 MR. FOUKAS: Savvas Foukas
22 of Hughes Hubbard & Reed, on behalf of
23 PricewaterhouseCoopers LLP.

24 MR. SENNETT: Nancy Sennett,
25 of Foley & Lardner LLP, on behalf of

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1 BRIAN J. WARD

2 the defendant Judith Boynton.

3 THE VIDEO OPERATOR: Will
4 the court reporter, Ms. Gail Schorr of
5 Merrill Corp. New York, please swear in
6 the witness.

7 B R I A N J. W A R D,
8 residing at PonSford Farm, Knowle,
9 Cullompton, Devon, EX15 1PX, UK, having
10 been first duly sworn by the Notary

11 Public (Gail F. Schorr), was examined

12 and testified as follows:

13 EXAMINATION BY MS. MARSHALL:

14 Q. Good morning.

15 A. Good morning.

16 MS. MARSHALL: Mr. Ward,
17 before we begin, I just want to note
18 for the record that this is a voluntary
19 deposition being conducted in London,
20 in the United Kingdom by the consent of
21 all parties. It's being conducted
22 pursuant to the Federal Rules of Civil
23 Procedure 29. Pursuant to that
24 agreement, the deposition is to be
25 conducted in accordance to the Federal

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1 BRIAN J. WARD

2 Rules of Civil Procedure and all
3 applicable rules and orders of the US
4 District Court for the District of New
5 Jersey.

6 Q. Mr. Ward, have you ever been
7 deposed before?

8 A. No.

9 Q. Okay. Why don't we go over
10 some groundrules. I'm sure that your
11 counsel has gone over this with you,
12 but we'll just -- I'll just do it again
13 for the record so it's clear.

14 It's important that you wait
15 till I finish my question before you
16 give your answer even if the answer is
17 obvious before I finish my question, so
18 that the court reporter can take down
19 my question as well as your answer.
20 Okay?

21 It's also important that
22 when I ask you a question that's a yes
23 or no question that you -- if you want
24 to nod your head of course that's fine,
25 but you have to answer verbally so she

0008

1 BRIAN J. WARD

2 can take down your answer as well.

3 Okay?

4 A. Yes.

5 Q. That's a good example. If
6 at any point you need to take a break
7 just let me know and we'll be able to
8 take a break provided there's not a
9 question on the record.

10 If I ask you a question at
11 any point that you don't understand
12 please let me know and I will rephrase
13 it for you. Otherwise, I'll assume
14 that you understand the question.

15 Okay?

16 A. Okay.

17 Q. For the purpose of this
18 deposition, when I say Shell, I'm
19 implying Royal Dutch/Shell Transport
20 and operating companies and service
21 companies in which they hold an
22 interest. So if there's any further
23 definition that you'd like to use or a
24 different definition depending on
25 whatever question or answer or time

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1 BRIAN J. WARD

2 period we're talking about just let me
3 know if you want me to further clarify
4 or if you need to further clarify that.

5 A. Okay.

6 Q. Is that okay?

7 A. Yes.

8 Q. We're just going to begin
9 with some preliminary questions about
10 your background. Okay?

11 A. Yes.

12 Q. Can you state your address
13 for the record?

14 A. Ponsford Farm, Knowle,
15 Cullompton, Devon, England.

16 Q. Where did you receive your
17 formal education?

18 A. At --

19 Q. At a university level.

20 A. University level?

21 Q. Yes.

22 A. In the University of East
23 Anglia, in Norwich.

24 Q. What type of degree did you
25 receive?

0010

1 BRIAN J. WARD

2 A. I got an honors degree in
3 physics.

4 Q. What year did you receive
5 that degree?

6 A. 1968.

7 Q. Did you have any particular
8 focus when you received that degree?

9 A. No.

10 Q. Did you receive any
11 subsequent degrees?

12 A. No.

13 Q. Do you have any professional
14 licenses? Or have you ever had any
15 professional licenses?

16 A. No.

17 Q. Have you ever belonged to
18 any professional organizations?

19 A. No.

20 Q. Did you ever have any formal
21 training outside of employment after
22 1968?

23 A. No.

24 Q. When did you begin your
25 employment with Shell?

0011

1 BRIAN J. WARD

2 A. August 1968.

3 Q. And what was your first job
4 with Shell?

5 A. I went as a junior petroleum
6 engineer to The Hague where I went
7 through a seven-month training period.

8 Q. What did that seven month
9 training period entail?

10 A. Basically going through all
11 the basic disciplines in the oil
12 company E&P business.

13 Q. How many disciplines were
14 those?

15 A. Approximately six or seven.

16 Q. Do you recall what any of
17 them were?

18 A. I do, yes.

19 Q. Can you list them?

20 A. Drilling, reservoir
21 engineering, production geology,
22 operations, economics. I don't recall
23 any more.

24 Q. After you finished that
25 training, what were your duties and

0012

1 BRIAN J. WARD
2 responsibilities as a junior petroleum
3 engineer?

4 A. I was sent to Brunei in
5 Borneo, where I did my first stint as
6 an operations engineer.

7 Q. How long did that stint
8 last?

9 A. In Borneo in total about
10 three or four years because I was
11 posted to Sarawak halfway through and
12 then came back to Borneo -- to Brunei,
13 I beg your pardon.

14 Q. And what were your
15 responsibilities during that time
16 period?

17 A. I was an operations engineer
18 and a petrophysicist. That was one of
19 the other courses, by the way, to your
20 previous question.

21 Q. Okay.

22 A. And back to petrophysicist.
23 So I did two jobs as a petrophysicist
24 and one job as an operations engineer.

25 Q. What's a petrophysicist?

0013

1 BRIAN J. WARD

2 A. A petrophysicist is
3 basically a person who interprets the
4 wireline logs that are run down hole to
5 measure the properties of the rock and
6 the fluids in the rock, in other words,
7 to say whether there's gas or oil down
8 there.

9 Q. Where did you move from
10 there?

11 A. I went from Brunei to
12 Rijswijk in Holland where I did some
13 one year, approximately one year of
14 research work into petrophysics.

15 Q. Would that have been 1971?

16 A. That would have been about
17 1974.

18 Q. So you were in Brunei from
19 '69 or so?

20 A. Yes.

21 Q. Until '74?

22 A. Yes. Brunei and Sarawak,
23 yes.

24 Q. Was there any particular
25 focus of your research that year in
0014

1 BRIAN J. WARD

2 Rijswijk?

3 A. There was. It was really to
4 do with the errors made by the logging
5 tools I was researching into.

6 Q. What do you mean by the
7 errors made by the logging tools?

8 A. When you measure something
9 in real life there's always errors
10 associated with that measurement, and
11 my job was to look at some of these
12 tools and see if I could quantify what
13 the errors were.

14 Q. What did you do after that
15 year?

16 A. I went to Nigeria.

17 Q. What was your title in

18 Nigeria when you first arrived?

19 A. When I first arrived I was
20 senior petrophysicist and I also
21 combined that with senior economics
22 job.

23 Q. And what were your
24 responsibilities as a senior
25 petrophysicist?

0015

1 BRIAN J. WARD

2 A. My job was to ensure that
3 the petrophysical data and evaluation
4 thereof was done in a professional
5 manner.

6 Q. And what were your
7 responsibilities with respect to your
8 economics responsibilities?

9 A. I would run the project
10 economics for the company, Shell
11 Petroleum Development Company.

12 Q. And what did that entail?

13 A. It entailed gathering
14 together all the information required
15 to run the economics of a project to
16 see whether or not it was profitable.

17 Q. And how long did you stay in
18 those roles?

19 A. Three years.

20 Q. And do you recall who you
21 reported to during that time?

22 A. Chief petroleum engineer was
23 Peter Everett.

24 Q. What position did you move
25 to after that?

0016

1 BRIAN J. WARD

2 A. From Nigeria I went back to
3 Brunei.

4 Q. About what year is that?

5 A. '77, '78.

6 Q. What was your role this time
7 in Brunei?

8 A. I was head of technical

9 agreements and economics.

10 Q. What did that entail?

11 A. Basically my job was to run
12 a department that looked after the
13 economic evaluation of the projects
14 within the company, and also to be
15 custodian of and advise on technical
16 agreements with other parties, third
17 parties.

18 Q. How long did you hold that
19 position?

20 A. Two, three years.

21 Q. Where did you go after that?

22 A. I went to Argentina.

23 Q. How long were you in
24 Argentina?

25 A. Ten months.

0017

1 BRIAN J. WARD

2 Q. About what year was that, if
3 you remember?

4 A. That was 1982.

5 Q. What was your role in
6 Argentina?

7 A. I was operations manager and
8 petroleum engineering, head of
9 petroleum engineering.

10 Q. Did you have a particular
11 focus during those 10 months?

12 A. Yes, we were drilling
13 exploration wells, exploration and
14 appraisal wells offshore in southern
15 Argentina.

16 Q. Where did you go from there?

17 A. I went to NAM in Holland.

18 Q. What year -- so that
19 would --

20 A. '82.

21 Q. '82?

22 A. Yes.

23 Q. And how long did you stay
24 there?

25 A. A couple of years I guess.

0018

1 BRIAN J. WARD

2 Q. Do you recall what your role
3 was there?

4 A. Yes. I was head of
5 operations.

6 Q. Did you have any particular
7 focus during that time period?

8 A. No. It was a general job
9 running the operations in the company.

10 Q. Where did you move from
11 there?

12 A. I then went to Sarawak in
13 Borneo.

14 Q. How long were you in
15 Sarawak?

16 A. A couple of years I guess.

17 Q. It's the pattern I guess.
18 And what was your role there?

19 A. Two or three years. Three
20 years probably. I was operations
21 manager.

22 Q. Did you have any particular
23 focus during that time period?

24 A. No.

25 Q. Where did you move to after

0019

1 BRIAN J. WARD

2 that?

3 A. I went to The Hague in head
4 office.

5 Q. What year did you arrive in
6 The Hague, if you remember?

7 A. I've forgotten where we're
8 up to.

9 Q. You had just left --

10 A. No I mean in years.

11 Q. Sarawak, you said you were
12 there two or three years which I think
13 probably gets us to about '85. Does
14 that sound right?

15 A. Yeah.

16 Q. It might have been a little

17 later? How long were you in Holland?

18 A. Well, you know, all these
19 postings were two to three years.

20 Q. Okay. What was your title
21 when you were in The Hague?

22 A. I was head of group drilling
23 operations and I ran their single
24 string ventures.

25 Q. Now when you say group
0020

1 BRIAN J. WARD

2 drilling operations, what does that
3 encompass?

4 A. It means that my job was to
5 oversee -- we spent several million
6 dollars a year on drilling and my job
7 was to oversee the management of our
8 drilling operations around the world.

9 Q. So there was no particular
10 geographic focus, it was global?

11 A. No, it was global.

12 Q. And what is a single string
13 venture?

14 A. Single string venture is
15 where you send a drilling rig somewhere
16 where your exploration people have said
17 we should drill a wildcat well, it
18 could be in Nepal, or Far East or
19 deepwater.

20 Q. And when you use the term
21 wildcat well, can you explain what that
22 means?

23 A. It means you haven't drilled
24 in that region before.

25 Q. How long did you have that
0021

1 BRIAN J. WARD

2 role as head of group drilling
3 operations in the single string?

4 A. Two years.

5 Q. Do you recall who you
6 reported to during that time period?

7 A. No, I can't recall his name.

8 Q. Okay. Do you recall where
9 you moved from there?

10 A. Yes. I went to Aberdeen.

11 Q. Do you know about where we
12 are now in terms of years?

13 A. Yeah, we're early nineties
14 now.

15 Q. What was your role in
16 Aberdeen?

17 A. I was the production
18 director and deputy managing director
19 for Shell UK exploration and
20 production.

21 Q. What were your
22 responsibilities as production
23 director?

24 A. To oversee the -- the field
25 office, if you like, in Aberdeen. We

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1 BRIAN J. WARD

2 had two offices. One was in London and
3 one was in Aberdeen. Aberdeen ran
4 everything to do with the operation,
5 and that was my job, to look after the
6 operations in the North Sea.

7 Q. Did you have any different
8 duties as deputy managing director or
9 were those the same role?

10 A. No, it wasn't. The deputy
11 managing director just entailed if the
12 managing director is away I would take
13 over from him.

14 Q. Okay. Where did you move
15 from there?

16 A. From there in 1994 I went to
17 Oman in the Middle East.

18 Q. How long were you in Oman?

19 A. Till 1999.

20 Q. What was your title there?

21 A. Managing director.

22 Q. What were your
23 responsibilities as managing director
24 in Oman?

25 A. To oversee the running of

0023

1 BRIAN J. WARD

2 the company and to manage the
3 relationships with government
4 ministers.

5 Q. Do you recall who you
6 reported to during that time period?

7 A. I reported to, well, various
8 people I guess. Phil Watts was one of
9 the people in the center whom I would
10 report to.

11 Q. And what was his role at the
12 time?

13 A. He was head of exploration
14 and production.

15 Q. So you reported directly to
16 him when you were the MD of Oman?

17 A. Correct.

18 Q. Was he the head of EP the
19 entire time that you were the managing
20 director of Oman, if you recall?

21 A. No, he wasn't, but the last
22 three years I guess.

23 Q. The last three years?

24 A. Yes.

25 Q. So when you first got there

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1 BRIAN J. WARD

2 there was somebody else in that
3 position?

4 A. There was somebody else.
5 Mark Moody-Stuart was the...

6 Q. Where did you go from Oman?

7 A. From Oman I went to the NAM
8 in Holland.

9 Q. What year did you arrive
10 there?

11 A. '99.

12 Q. Do you recall what time of
13 year it was that you made the switch?

14 A. It was the autumn of 1999.

15 Q. What was your role in NAM?

16 A. I was the managing director.

17 Q. Was there any particular
18 reason for the switch from Oman to NAM
19 at that time?

20 A. I'd done nearly five years
21 in Oman, and it was time to rotate I
22 guess.

23 Q. Did you have any particular
24 responsibilities in NAM that differed
25 in any way from your responsibilities

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1 BRIAN J. WARD

2 in Oman?

3 A. Not really, but it was a
4 very different company and therefore
5 focus was very different.

6 Q. What was the focus in NAM?

7 A. I think the focus for myself
8 was to try to downsize the company to
9 something which related to the
10 operation size. It had got too -- too
11 big at that time.

12 Q. And who did you report to
13 during that time period when you were
14 at --

15 A. Phil Watts.

16 Q. Again, even though my
17 question was really so obvious, you've
18 got to wait until I finish.

19 A. Sorry.

20 Q. So that the record is clear
21 later on.

22 So when you were the
23 managing director of NAM you reported
24 directly to Phil Watts?

25 A. Correct.

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1 BRIAN J. WARD

2 Q. And do you recall what his
3 -- was that when he was still head of
4 EP?

5 A. Yes.

6 Q. And how long were you at

7 NAM?

8 A. Two years, one and a half,
9 two years.

10 Q. And where did you go from
11 there?

12 A. I went back to The Hague.

13 Q. What was your title when you
14 went back to The Hague?

15 A. Initially it was regional
16 business director.

17 Q. For which particular area?

18 A. For South America and for
19 Europe.

20 Q. How long did you have that
21 position?

22 A. The position was already in
23 transition when I got there, so it's
24 probably about 10 months. We were
25 reorganizing at that time.

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1 BRIAN J. WARD

2 Q. And can you describe how the
3 reorganization affected your position?

4 A. It affected my position in
5 the sense that in the first case we
6 went from an advisory role as regional
7 business directors, to CEOs, chief
8 executive officers for the region. And
9 secondly, I moved regions over to
10 Africa.

11 Q. So after the reorganization
12 what was your title?

13 A. CEO Africa, exploration and
14 production.

15 Q. Is that also known as EPG?

16 A. EPG was my department.

17 Q. What do you mean by your
18 department?

19 A. The people who worked for me
20 myself were collectively referred to as
21 EPG.

22 Q. What was your department
23 referred to when you were the regional

24 business director for South America and
25 Europe?

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1 BRIAN J. WARD

2 A. It didn't have a collective
3 name.

4 Q. Do you recall when exactly
5 you became the CEO for Africa
6 exploration and production?

7 A. Not exactly. It was
8 probably early 2001.

9 Q. And then did you assume
10 Heinz Rothermund's position?

11 A. Correct, when I initially
12 went there.

13 Q. Meaning when you initially
14 became the regional business director
15 for South America and Europe?

16 A. Yes.

17 Q. When you took over for
18 Africa, who had held the responsibility
19 of that geographic area?

20 A. We -- to the best of my
21 knowledge, in that reorganization
22 Africa was a separate entity that was
23 looked after, I'm not -- I'm not
24 entirely clear how that came about. I
25 was in NAM when they were going through

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1 BRIAN J. WARD

2 this reorganization.

3 Q. So when you took over for
4 Rothermund do you recall whether or not
5 he had been -- when you took over for
6 Rothermund, do you recall whether he
7 had been in charge of Africa as well?

8 A. He did have responsibilities
9 for Africa, that's correct. But the
10 main thrust at that time was in Europe
11 and South America.

12 Q. And why was that?

13 A. We had -- prior to the
14 reorganization, the operating companies

15 were much more self-sustained and
16 independent in terms of management and
17 that's when we were regional business
18 directors. SPDC specifically had its
19 full complement of management and
20 staff, technical, commercial. So it
21 was a -- it was an entity which didn't
22 need a lot of support or was deemed not
23 to need a lot of support. The idea was
24 to move to a much more direct line
25 responsibility and authority with the

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1 BRIAN J. WARD

2 CEO being in the center and the, what
3 used to be the managing directors in
4 the various operating companies became
5 production directors.

6 Q. Do you know why the change
7 was made?

8 A. The change came out as a
9 result of a study undertaken in The
10 Hague which I wasn't party to. It was
11 done -- I think it was done to try to
12 accommodate the much more complex
13 nature of doing business around the
14 world as it was becoming. If I went
15 back 20 years then the managing
16 director's job would be perhaps 70
17 percent technical and 30 percent other.
18 Today the managing director's job is
19 probably 90 percent other, 10 percent
20 technical.

21 Q. And when you say other, can
22 you explain what some of those other
23 things are?

24 A. Politics, negotiations on --
25 with governments about the joint

0031

1 BRIAN J. WARD

2 venture agreements that you've got and
3 so on, handling those was a real-time
4 job which took up an awful lot of time.

5 Q. So was that a move made so

6 that more technical work was done
7 centrally?

8 A. That came later. That was a
9 followup phase where we tried to
10 organization centers of excellence
11 centrally, in The Hague mainly, at that
12 time, and the idea being that we would
13 do the daily work in the operating
14 companies and the high level technical
15 expertise would be gained from The
16 Hague.

17 Q. And when was that transition
18 started?

19 A. During the time that I was
20 in the EPG or CEO role.

21 Q. And did that have any
22 particular genesis that you recall?

23 A. It was trying to keep up to
24 date with the times and the challenges
25 of running a global company.

0032

1 BRIAN J. WARD

2 Q. Were you involved directly
3 in working on the formation of these
4 centers of excellence?

5 A. Yes, I was.

6 Q. And what was your
7 involvement?

8 A. I set up an outfit called
9 technical operations and excellence,
10 TOE.

11 Q. When did you set that up?

12 A. 2002 I guess.

13 Q. Did you set it up at
14 anyone's direction? Did that come out
15 of ExCom or did it --

16 A. No, it -- it came out of
17 discussions with Walter van de Vijver.
18 I felt very strongly that we needed to
19 have a center of excellence that would
20 set basic standards for our operations
21 around the world.

22 Q. And what was Mr. van de

23 Vijver's view?

24 A. He thought it was a good
25 idea.

0033

1 BRIAN J. WARD

2 Q. When did you begin having
3 conversations with him about that?

4 A. I can't remember specific
5 date. I mean it would be around 2002.
6 And 2001, beginning 2002.

7 Q. Prior to that time period
8 had you had any interactions with Mr.
9 van de Vijver?

10 A. On a regular basis, yes.

11 Q. And when did you start
12 interacting with him regularly? What
13 position were you in?

14 A. Mr. van de Vijver actually
15 phoned me from NAM and asked me to come
16 down and join him in The Hague. I
17 might add that my first connection with
18 Mr. van de Vijver he worked for me in
19 Aberdeen.

20 Q. So that was in the early
21 nineties?

22 A. Yes, '90 to '94, '91 to '94.
23 Yeah, '90 to '94.

24 Q. What was his function when
25 he was working for you in Aberdeen?

0034

1 BRIAN J. WARD

2 A. He was head of the Brent
3 Field unit.

4 Q. And what did that unit do?

5 A. Its job was to manage the
6 production and development and
7 exploration around the Brent Field in
8 -- in the North Sea.

9 Q. And how would you describe
10 your working relationship during that
11 time?

12 A. It was very good.

13 Q. And he eventually moved on

14 to The Hague?

15 A. Yes.

16 Q. So in -- when you say that
17 he called you to go to The Hague, that
18 was in 2001?

19 A. Mm-hmm.

20 Q. What was his title at that
21 time?

22 A. He took over from Mr. Watts
23 as head of E&P. And I think prior to
24 that he was in the States. So he'd
25 come from Aberdeen to the United

0035

1 BRIAN J. WARD

2 States.

3 Q. Had you had any interaction
4 with him during the time period that he
5 was in the United States?

6 A. Not at all.

7 Q. So when he became head of
8 E&P, he called you to ask you if you
9 would come to The Hague to be the
10 regional business director for South
11 America and Europe; is that correct?

12 A. Not exactly. He had in mind
13 another organization which we -- we
14 didn't achieve at the time.

15 Q. What organization was that?

16 A. I think he -- his thoughts
17 were to have a chief operating officer.

18 Q. Working directly under him?

19 A. Yes.

20 Q. And he wanted you to be that
21 person?

22 A. Correct.

23 Q. And when you say that was
24 something that he didn't achieve, what
25 do you mean?

0036

1 BRIAN J. WARD

2 A. Well, I mean they had
3 discussions in the CMD which I'm not
4 privy to.

5 Q. And so that position was
6 never created?

7 A. That position was never
8 created.

9 Q. So when you came to The
10 Hague what position did you think you
11 were coming for?

12 A. I knew I was coming to the
13 RBD position, but I expected it to be
14 for a short time.

15 Q. Did you learn anything about
16 the discussions that went on regarding
17 a role that never was created?

18 A. No.

19 Q. When did the -- when you
20 went to The Hague initially, was this
21 technical operations and excellence
22 center part of the discussion?

23 A. No, it wasn't.

24 Q. That's something that came
25 up later?

0037

1 BRIAN J. WARD

2 A. Yes.

3 Q. Okay. How long did you work
4 -- how long were you involved in
5 setting up the center for technical
6 operations and excellence?

7 A. Well we -- I guess it took
8 about six months before we finally
9 staffed it.

10 Q. And how large of a staff did
11 it have?

12 A. Eight or nine people.

13 Q. And who headed it up?

14 A. Well, I was head of it I
15 guess to start with and then I clearly
16 couldn't handle all the daily work from
17 the -- from the T&OE group and I had a
18 deputy run it.

19 Q. And who was that?

20 A. John Bell.

21 Q. And where was the center for

22 technical operations and excellence?

23 A. In The Hague, in Rijswijk.

24 Q. In Rijswijk. Were you
25 involved in any way in the creation of
0038

1 BRIAN J. WARD

2 SDS?

3 A. No.

4 Q. Did you have any involvement
5 with SDS at any time?

6 A. Yes.

7 Q. When did you first have
8 involvement with SDS?

9 A. SDS, the evolution of SDS
10 was a subject discussed quite often in
11 the EP, ExCom. So I was involved in
12 that sense. I was involved in the
13 general discussions around setting up a
14 center of excellence for deepwater.

15 Q. And was the center of
16 excellence for deepwater, did it have
17 any relationship with the center of
18 technical operations and excellence?

19 A. Inevitably there were
20 overlaps.

21 Q. What were those overlaps?

22 A. If you -- in the T&OE group
23 we had a person responsible for our
24 engineering work, and SDS also had
25 people, tended to be more specialized
0039

1 BRIAN J. WARD

2 people for running engineering
3 projects.

4 Q. And did those people ever
5 have any need to interact or occasion
6 to interact?

7 A. They talked to each other,
8 yes.

9 Q. And do you know any
10 circumstances that would require them
11 to talk to each other?

12 A. It would usually be around

13 staffing.

14 Q. Were some of the engineers
15 that worked at the T&OE group ever sent
16 to SDS or vice versa?

17 A. The T&OE group was not an
18 executive group per se. The engineers
19 were still out in the operating
20 companies. So the question would be a
21 discussion around a particular
22 individual if he was going to go to SDS
23 for a few years or whether he would
24 stay in an operating company or come
25 back to The Hague, that sort of

0040

1 BRIAN J. WARD

2 discussion.

3 Q. Was there any exchange of
4 technical information between the TOE
5 group and SDS?

6 A. There tended to be -- T&OE
7 tended to specialize much more on our
8 normal standard engineering work. SDS
9 was specialized in deepwater. So there
10 wasn't a huge amount of technical
11 overlap.

12 Q. So if there was ever a
13 deepwater question that would be
14 directed to SDS?

15 A. Not to start with. SDS
16 started off as the American
17 organization, or Shell arm looking
18 after the Gulf of Mexico. That's where
19 it all started. And it took, I guess
20 it's still going on now, I don't know,
21 because I left two years ago, but it
22 took a long time for that to evolve
23 into a center of excellence which other
24 operating companies would call on if
25 required.

0041

1 BRIAN J. WARD

2 Q. But that did eventually
3 happen?

4 A. It happened where it could
5 happen. There's a lot of difficulties
6 in a global company in running things
7 globally because the national
8 governments, quite understandably,
9 don't like to have their engineers
10 supplanted by people working somewhere
11 far in the distance, certainly not in
12 their country. So in a place like the
13 UK, then SDS could be much more
14 involved than in a place like Nigeria,
15 for example.

16 Q. SDS did get involved in
17 Nigeria, did they not?

18 A. They got -- they got
19 involved in what we call the front end
20 work, the exploration type work,
21 geology, seismic interpretation, that
22 sort of stuff, and they did what we
23 call basin studies for us for the whole
24 of the Niger Delta offshore, because we
25 knew that Niger Delta offshore was

0042

1 BRIAN J. WARD

2 going to be a big thing.

3 Q. Prior to your involvement
4 with the TOE, had you had any
5 involvement with any centers in the
6 United States dealing with technical
7 expertise such as the Bellaire
8 Technology Center?

9 A. None at all.

10 Q. When you say that the TOE
11 began with discussions with Walter van
12 de Vijver, did you initiate those
13 conversations or did he?

14 A. I did.

15 Q. And why did you do that?

16 A. Because I felt the need for
17 it.

18 Q. Was he receptive?

19 A. Yes, he was.

20 Q. And what transpired after

21 the discussions? Were there formal
22 presentations made?

23 A. Yes, I mean basically I went
24 away and worked with other people to
25 see what form this organization could
0043

1 BRIAN J. WARD

2 take. I guess we would have presented
3 it in the ExCom, got the green light
4 and then we staffed it, and that's --
5 that's how it got started.

6 Q. Once you came to The Hague
7 in 2001, did you have any direct
8 interaction with Mr. Watts?

9 A. My direct interaction would
10 not be on a daily basis at all. In
11 other words, I didn't deal with him in
12 terms of my job. But of course I saw
13 him quite often.

14 Q. Now just to finish out your
15 career, I think we've got you as the
16 CEO of Africa and now it's 2002?

17 A. Yes.

18 Q. How long did you remain in
19 that position?

20 A. Until October 2004.

21 Q. And what happened at that
22 point?

23 A. I beg your pardon?

24 Q. And what happened at that
25 point, did you retire?

0044

1 BRIAN J. WARD

2 A. I retired.

3 Q. Was that a voluntary
4 retirement?

5 A. Yes, it was.

6 Q. Just in the normal course
7 of --

8 A. Well, I'd done a year extra.
9 So it was --

10 Q. You were beyond and above
11 the call of duty?

12 A. Yes.

13 Q. Do you -- have you had any
14 interaction with Shell officially since
15 you retired? Have you been on any
16 advisory boards or anything?

17 A. No, I've done some
18 consultancy work for some oil companies
19 and in that role I've contacted Shell
20 on several occasions.

21 Q. Are any of the oil companies
22 that you've consulted with companies
23 that Shell is involved with?

24 A. No.

25 Q. Which companies have you

0045

1 BRIAN J. WARD
2 done consulting work with?

3 A. Well --

4 MR. CLARK: Is it
5 confidential?

6 A. Yes, I mean --

7 MR. CLARK: Does it matter?

8 MS. MARSHALL: No, that's
9 fine.

10 Q. Since I've gone through your
11 employment history, if you need to take
12 a quick break before we get to the next
13 subject, I'm happy for you to do that,
14 it's up to you.

15 MR. CLARK: Let's take five
16 minutes.

17 THE VIDEO OPERATOR: Off the
18 record. The time is 10:50.

19 (A recess was taken.)

20 THE VIDEO OPERATOR: Back on
21 the record, the time is 11:06.

22 Q. Okay, Mr. Ward, if we turn
23 back, not all the way back to the
24 beginning of your time at Shell, but
25 back to when you were in Oman, do you

0046

1 BRIAN J. WARD

2 recall during your time in Oman whether

3 or not you had any responsibilities
4 with respect to the reporting of
5 reserves?

6 A. I was the managing director
7 for the company and therefore had
8 responsibility for what went on in the
9 company, but I wasn't directly involved
10 in the management or reporting of
11 reserves myself.

12 Q. And who was during that time
13 at the company?

14 A. A senior reservoir engineer.

15 Q. And do you recall what his
16 name was?

17 A. No, I don't.

18 Q. Could it have been Stewart
19 Clayton?

20 A. No.

21 Q. What was Stewart Clayton's
22 role?

23 A. I don't recall Stewart
24 Clayton.

25 Q. Is PDO the name of the

0047
1 BRIAN J. WARD

2 operating company in Oman?

3 A. Correct.

4 Q. When you were the managing
5 director of PDO, do you recall any
6 specific issues with respect to
7 reserves during your time there?

8 A. The specific issues I recall
9 are to do with production rather than
10 reserves.

11 Q. And what were the issues
12 with respect to production that you
13 recall?

14 A. We had managed to improve
15 our production rates year on year for
16 many years. It was quite clear that we
17 would be unable to continue
18 indefinitely doing that, and that was
19 -- it was a lot of focus of my

20 attention on that particular issue.

21 Q. Do you recall at any point
22 in time there being issues with
23 production, problems with production?

24 A. The forward look for
25 production was an issue.

0048

1 BRIAN J. WARD

2 Q. Why was that?

3 A. Because the year-on-year
4 increases couldn't continue.

5 Q. And why was that, just
6 because there wasn't enough oil in the
7 ground?

8 A. Because there wasn't enough
9 resource developed.

10 Q. Were there -- what was the
11 situation with respect to Shell's
12 license in Oman?

13 A. We had a license until 2012.

14 Q. When you were in Oman, was
15 there any talk of extending that
16 license?

17 A. Yes.

18 Q. Can you describe what was
19 going on when you were there with
20 respect to the license?

21 A. We were developing an LNG
22 plant whose period was a 20 year period
23 and we would hope to expand that. And
24 that went beyond the 2012 license
25 expiry date, and therefore, we wanted

0049

1 BRIAN J. WARD

2 to enter into negotiations with the
3 government about the extension of the
4 2012 license period.

5 Q. Were you involved in those
6 negotiations?

7 A. No, I wasn't.

8 Q. Do you know who was involved
9 in those negotiations?

10 A. No, I don't.

11 Q. Did they begin while you
12 were in Oman, or did they start later?

13 A. Not formally, no.

14 Q. So when you were there it
15 was something that was being discussed
16 internally?

17 A. Yes.

18 Q. While you were at PDO, was
19 there any conversation with respect to
20 reserve reporting and the license
21 issue?

22 MR. CLARK: Objection;
23 vagueness.

24 Q. You can answer the question
25 if you understand it.

0050

1 BRIAN J. WARD

2 A. Could you repeat the
3 question.

4 Q. Sure. While you were at PDO
5 were there any -- was there any
6 conversation with respect to reserve
7 reporting and the license issue?

8 MR. CLARK: Same objection.

9 Q. You can answer the question
10 if you understand it.

11 A. Okay. There was an issue
12 around reserve reporting while I was in
13 Oman, and I was involved marginally in
14 that discussion.

15 Q. What was the issue?

16 A. The issue was that Shell
17 felt they were being conservative with
18 their reserve reporting and we were
19 looking at ways to enhance our reserve
20 reporting.

21 Q. When you say Shell felt they
22 were being conservative, is the they
23 Shell or is the they Oman, just so it's
24 clear?

25 A. The they in this case is

0051

1 BRIAN J. WARD

2 Shell.

3 Q. Okay. So Shell felt that
4 Shell was being conservative in its
5 reporting, reserve reporting?

6 A. What had happened was that
7 in various fields, joint venture fields
8 our partners were reporting more
9 reserves than we were.

10 Q. And who were your partners
11 on those fields?

12 A. In the North Sea, Exxon, for
13 example.

14 Q. And how were you aware of
15 what they were reporting?

16 A. I can't answer that
17 question.

18 Q. Did you recall ever having
19 conversations with Exxon about the way
20 that they were reporting?

21 A. I didn't personally, no.

22 Q. Do you know if anybody
23 within Shell or PDO was having such
24 conversations?

25 A. No, I don't know.

0052

1 BRIAN J. WARD

2 Q. How do you recall this issue
3 being brought to your attention?

4 A. It was a general issue in
5 operating companies where technical
6 staff were reviewing our reserves
7 reporting processes.

8 Q. What was your understanding
9 of the reserve reporting process in PDO
10 at that time?

11 A. As far as I can recall it
12 was a purely conventional reserves
13 reporting process with a proven and
14 expectation reserves.

15 Q. What was your understanding
16 of the term proved reserves at that
17 time?

18 A. The reserves had a

19 probability of existing of more than 85
20 percent.

21 Q. Was there any other criteria
22 that you were aware of for a reserve to
23 be considered a proved reserve at that
24 time?

25 A. No.

0053

1 BRIAN J. WARD

2 Q. Did you understand at that
3 time for there to be a difference
4 between proved developed and proved
5 undeveloped reserves?

6 A. No.

7 Q. Did you understand there to
8 be a difference between proved reserves
9 and expectation reserves at that time?

10 A. Yes.

11 Q. What did you understand the
12 difference to be?

13 A. The probability of 50
14 percent was applied to expectation
15 reserves.

16 Q. Do you now understand there
17 to be a difference between proved
18 developed and proved undeveloped
19 reserves?

20 A. I know the difference
21 between the two, yes.

22 Q. Do you recall when you
23 learned the difference?

24 A. I don't recall ever really
25 using that on a daily basis within

0054

1 BRIAN J. WARD

2 Shell. It wasn't a common parameter
3 that was used, but it was known.

4 Q. When did it become known to
5 you?

6 A. I can't recall.

7 Q. Is it something that you
8 recall ever being discussed while you
9 were in Oman?

10 A. No.

11 Q. When you were in Oman, did
12 you have any responsibility for
13 determining whether reserves could be
14 considered proved?

15 A. Personal involvement, no.

16 Q. Did you have any other kind
17 of involvement?

18 A. Only as overseer of the
19 company.

20 Q. In your role as an overseer,
21 did you have any responsibilities for
22 overseeing the determination of whether
23 reserves could be considered proved?

24 A. No.

25 Q. When you were in Oman, did

0055

1 BRIAN J. WARD

2 you understand there to be
3 prerequisites for reserves to be
4 considered proved?

5 A. Yes.

6 Q. What did you understand
7 those prerequisites to be?

8 A. There were various criteria
9 that our reservoir engineers used based
10 on our reserve reporting guidelines.

11 Q. And do you recall whether or
12 not you were aware what those
13 guidelines were when you were in Oman?

14 A. I would be able to
15 understand the technology that people
16 would talk me through if there was a
17 discussion about proven reserves, but I
18 was never really -- I can't recall ever
19 having a serious discussion about
20 proved reserves there.

21 Q. Do you recall either --
22 strike that.

23 Do you recall prior to your
24 time in Oman whether you received any
25 formal training with respect to

0056

1 BRIAN J. WARD

2 reserve --

3 A. No, I didn't.

4 Q. -- categorization?

5 A. Sorry. No, I didn't.

6 Q. Have you subsequently
7 received any formal training with
8 respect to reserves categorization?

9 A. No, I haven't.

10 Q. Have you ever seen Shell
11 Group guidelines with respect to
12 reserves?

13 A. No, I haven't.

14 Q. When you were employed by
15 Shell, were you aware of SEC Rule 4-10?

16 A. No.

17 Q. Are you aware of SEC Rule
18 4-10 now?

19 A. I am aware of criteria
20 specified by the SEC for proved
21 reserves reporting.

22 Q. How did you become aware of
23 this -- that there were such criteria?

24 A. During the period 2000 to
25 2004 the awareness of the SEC

0057
1 BRIAN J. WARD

2 compliance within Shell started to --
3 within Shell outside the US I should
4 say, started to become more widely
5 known. So I guess the answer to your
6 question is from about 2000 onwards,
7 2001 onwards.

8 Q. But prior to that time you
9 had no awareness of there being such a
10 rule as that --

11 A. No.

12 Q. -- correct?

13 A. Correct.

14 Q. Do you recall in the
15 mid-1990s in Oman periods of production
16 slow-down?

17 A. We had to work harder and

18 harder in terms of investment and
19 operations to maintain production, the
20 same production or increased
21 production.

22 Q. Did that require the
23 drilling of additional wells?

24 A. It did.

25 Q. And did this indicate an

0058

1 BRIAN J. WARD

2 underlying problem in your mind?

3 A. I wouldn't call it a
4 problem. I would call it a challenge
5 which every oil producer is faced with
6 at some time.

7 Q. Do you recall a point in
8 time when you realized that this was
9 not a -- this was going to become a
10 larger problem in Oman?

11 A. Yes, I do.

12 Q. And do you recall when
13 approximately that was?

14 A. Approximately '97.

15 Q. Do you recall whether or not
16 you had communications with Mr. Watts
17 about this underlying -- you didn't
18 want to call it a problem -- condition?

19 MS. LATIMER: Object to the
20 form.

21 Q. A challenge, you used the
22 term challenge. Do you recall whether
23 or not you had conversations with Mr.
24 Watts about this challenge?

25 MS. LATIMER: Object to the

0059

1 BRIAN J. WARD

2 form.

3 Q. You can answer the question.

4 A. In general, in general
5 terms, yes, because in our
6 relationships with the government and
7 the Sultan of Oman we had always been
8 able to show graphs of increasing

9 production with increasing reserves,
10 and this, as I said before, was going
11 to start coming to an end and that was
12 an issue that needed to be managed with
13 the government.

14 Q. Do you recall whether or not
15 during that time period -- I guess
16 we're talking about 1997; is that
17 correct?

18 A. As best I can recall, the --
19 the issue in terms of declining
20 production was tackled around 1997,
21 yes.

22 Q. And did it remain an issue
23 during the rest of your tenure at --

24 A. Correct.

25 Q. -- Oman?

0060

1 BRIAN J. WARD

2 A. Yes.

3 Q. And how were those concerns
4 addressed with the Government of Oman?

5 A. I reorganized the company so
6 that we had separate units looking
7 after different areas in Oman, and the
8 reason for doing that was to avoid
9 dependence upon a few large fields in
10 Oman at that time.

11 Q. Were there particular fields
12 that were becoming problematic?

13 A. There were three fields, one
14 of which, Ybal Field, was a major
15 problem.

16 Q. Why was it a problem?

17 A. Because we were running out
18 of drilling locations to drill to
19 increase production.

20 Q. As the production problems
21 were becoming more of an issue, do you
22 recall whether there were any
23 conversations with respect to any
24 implications on reserve reporting?

25 MR. CLARK: Objection;

0061

1 BRIAN J. WARD

2 mischaracterizes prior testimony.

3 Q. You can answer the question
4 if you understand it.

5 A. Can you repeat the question,
6 please.

7 Q. Sure. As the production
8 problems were becoming more of an
9 issue, do you recall whether there were
10 any conversations with respect to any
11 implications on reserve reporting?

12 MR. CLARK: Same objection.

13 A. I don't have any
14 recollection of tying reserves
15 particularly, or resource space
16 particularly to production. The issue
17 was developing that resource rather
18 than not having the resource.

19 Q. What do you -- when you say
20 the issue was developing the resource,
21 can you explain what you mean by that?

22 A. Okay. There was a large
23 number of fields in Oman. We had a
24 considerable dependency on three or
25 four major fields and the smaller

0062

1 BRIAN J. WARD

2 fields and more complex fields weren't
3 at the same stage of development as the
4 larger fields.

5 The issue was how much more
6 effort did you need to be able to bring
7 those smaller fields into play to
8 replace the declining production from
9 the bigger fields.

10 Q. And were conclusions reached
11 about how much more effort would be
12 required to bring those smaller fields
13 into play to replace the declining
14 production from the bigger fields?

15 A. Not during my tenure. We
16 worked hard at it, we reorganized, but

17 the final solution came quite a long
18 time after I left.

19 Q. And what was the final
20 solution?

21 A. Lots more effort, lots more
22 money.

23 Q. Now, during the 1999 time
24 period do you recall there being an
25 audit of PDO by the GRA, the Group

0063

1 BRIAN J. WARD

2 Reserves Auditor?

3 A. I don't recall it.

4 Q. Do you recall in 1999 that
5 there was a view that the proved
6 reserves that were coming out of PDO
7 were too conservative?

8 A. Not in any other context
9 than the overall issue around
10 conservative reserve reporting.

11 Q. What do you mean by the
12 context of the overall issue?

13 A. Earlier I mentioned that we
14 had a concern within Shell, in the
15 Shell Group that we were too
16 conservative with our reserve
17 reporting. So all the large operating
18 companies were being looked at by our
19 technical staff to see how we were
20 doing it.

21 Q. Do you recall that Oman was
22 being looked at?

23 A. In -- in terms of technical
24 staff looking at how we were reporting,
25 yes, I was aware that they were doing

0064

1 BRIAN J. WARD

2 that.

3 Q. And how were you -- how was
4 it that you were aware that they were
5 doing that?

6 A. We would get visits from
7 technical staff to PDO.

8 Q. Do you recall having any
9 discussions with Mr. Watts about how
10 Oman was, or PDO was reporting
11 reserves?

12 A. At that time, it was Mr.
13 Moody-Stuart that I was reporting to,
14 not Mr. Watts.

15 Q. When did Mr. Watts --

16 A. This was later, after I left
17 -- sorry, no, it was about 1999,
18 towards the end of my tenure in Oman
19 that I started. Mr. Watts was replaced
20 by Mr. -- sorry, Mr. Moody-Stuart was
21 replaced by Mr. Watts.

22 Q. Do you recall having
23 conversations -- what, if anything, do
24 you recall about conversations with Mr.
25 Moody-Stuart regarding the manner in

0065

1 BRIAN J. WARD
2 which PDO was reporting reserves?

3 A. I didn't have that
4 conversation.

5 Q. Did you have any such
6 conversations with Mr. Watts?

7 A. No, I didn't.

8 Q. Did you ever have any
9 interaction with Mr. Watts about
10 reserve reporting when you were in
11 Oman?

12 A. Only to the extent that I've
13 already explained in the sense that we
14 had an issue with managing the
15 Government of Oman whereby we had to
16 either reduce our production or we had
17 to spend a lot more money, both of
18 which would have been highly
19 unpalatable to the Government of Oman
20 at that time.

21 Q. And do you recall Mr. Watts
22 taking a view on that?

23 A. I don't recall Mr. Watts
24 taking a view on that.

25 Q. And do you recall in 2000

0066

1 BRIAN J. WARD

2 there was an agreement made with the
3 Oman government to perform technical
4 and study work necessary in order for
5 PDO to revise its reserve estimates?

6 A. I was aware after I'd left
7 Oman in 1999 that we continued with
8 support for PDO from -- from The Hague,
9 but I wasn't involved.

10 Q. Do you recall that there was
11 a new methodology adopted in PDO in
12 order to increase proved reserves?

13 A. I remember there were
14 discussions about a new methodology.
15 My understanding and recollection is
16 that not a lot changed.

17 MS. MARSHALL: I'm going to
18 show you a document that we'll mark as
19 exhibit, Ward Exhibit 1 for
20 identification. It's marked Bates LON
21 00010726 through 728.

22 (Ward Exhibit 1 for
23 identification, Bates stamped LON
24 00010726 through 728.)

25 Q. You want to take a moment

0067

1 BRIAN J. WARD

2 and look through the document.

3 A. Thank you.

4 Q. To see if you're familiar
5 with it or you recognize it. Because
6 it's an email chain, the way the
7 document reads, I find, you may not
8 find this, if you look at the last
9 email and read that first.

10 A. Okay, thank you.

11 Q. I think it will be more
12 helpful.

13 MS. MARSHALL: For the
14 record, there's an attachment
15 referenced in the email that begins on

16 page Bates 10727 ending 10728. We were
17 not able to locate the attachment in
18 the manner in which the documents were
19 produced.

20 MR. CLARK: Do you want him
21 to look at all the emails, even the
22 ones he's not on?

23 MS. MARSHALL: He doesn't
24 need to look at the emails --

25 MR. CLARK: I think he's

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1 BRIAN J. WARD

2 only on the first one, right?

3 Q. Yes, I would like you to
4 look at the one before that which is
5 from Mr. Watson, just quickly.

6 A. Okay, I've read that one.

7 Q. Do you recognize this email
8 exchange that begins on Bates Page
9 10727, it's an email dated August 1st,
10 1998 that appears to be from you?

11 A. Other than in the prep work
12 for this deposition, no. I don't
13 recall it.

14 Q. But you reviewed it in the
15 last few days?

16 A. Yesterday.

17 Q. Do you recall the
18 circumstances surrounding this email?

19 A. The -- my position was that
20 reserves definitions within PDO at that
21 time were not an issue, not a major
22 issue which needed any sort of priority
23 and should be sorted between the
24 technical staff. So I felt comfortable
25 that the issue would be sorted.

0069

1 BRIAN J. WARD

2 Q. Do you recall prior to this
3 email -- well, first let me ask you who
4 is Mr. Watson?

5 A. Mr. Watson was a colleague
6 that worked for a regional

7 organization.

8 Q. Which regional organization?

9 A. Shell Group E&P regional
10 organization -- no, sorry, it's not
11 E&P. It's Shell Group regional
12 organization where people were
13 appointed to this group to oversee
14 regions from outside the specific
15 discipline, in my case E&P.

16 Q. And do you recall having
17 discussions or correspondence with him
18 regarding the reserve reporting
19 guidelines?

20 A. No, I don't recall that.

21 Q. Do you recall the SIEP value
22 creation team?

23 A. No, I don't recall them.

24 Q. Do you recall discussions
25 about changes in reserve reporting

0070

1 BRIAN J. WARD

2 guidelines as it related to PDO?

3 A. I was aware of the general
4 issue around reporting guidelines. I
5 wasn't involved personally.

6 Q. If you look at this email,
7 is it not a discussion about changes in
8 reserve reporting guidelines?

9 A. It is.

10 Q. If you weren't involved in
11 the issue around reserve reporting
12 guidelines, do you have any idea why
13 you would have drafted this email?

14 A. I wouldn't have drafted it.

15 Q. Okay. Do you know who would
16 have drafted it?

17 A. My senior reservoir engineer
18 probably, but I don't know the answer
19 to that question.

20 Q. Do you know why you would
21 have -- I mean it appears to be sent
22 from you, correct?

23 A. Correct.

24 Q. Can you explain to me how
25 this might have happened?

0071

1 BRIAN J. WARD

2 A. Quite often at a technical
3 level the correspondence needed to be
4 brought to a higher level for
5 conclusion, and I guess this was one of
6 those cases. I will have looked at it
7 or I will have heard somebody tell me
8 about it and I'll have said fine, go
9 ahead.

10 Q. Okay. So you don't have any
11 specific recollection of the
12 implications of this discussion?

13 A. No.

14 Q. And you have no recollection
15 of any inquiries from the value
16 creation team regarding how PDO was
17 reporting reserves?

18 A. No, they certainly, as far
19 as I can recollect, didn't talk to me.

20 Q. Do you know who they would
21 have talked to?

22 A. They would have talked to my
23 technical people and reservoir
24 engineers within PDO.

25 Q. And do you recall who those

0072

1 BRIAN J. WARD

2 reservoir engineers would have been?

3 A. Well, one of them was Chris
4 Kennett because I remember him and he's
5 on this email.

6 Q. Do you recall that at year
7 end 2000 there was an increase in the
8 reserves, proven reserves reported by
9 PDO?

10 MR. CLARK: Are you asking
11 about the year 2000?

12 MS. MARSHALL: Yes.

13 A. No, I don't recall.

14 Q. Do you recall at some point

15 there being a steep decline in
16 production in PDO?

17 A. I was aware of a steep
18 decline in production in PDO after I'd
19 left.

20 Q. Was that in 2001?

21 A. That would be my guess, yes.

22 Q. Do you recall there being an
23 agreement with the Government of Oman
24 regarding expectation booking fees?

25 A. Yes, I do.

0073

1 BRIAN J. WARD

2 Q. What do you recall about
3 that?

4 A. The principle of the
5 discussion was the minister for oil and
6 gas felt uncomfortable with paying for
7 reserves bookings, which is part of our
8 agreement with the government there and
9 has been for many, many years. He
10 seemed to feel that we were paying,
11 they were paying twice for the oil,
12 once when we found it in the ground and
13 again paying us when we produced it.

14 Q. And at some point was there
15 an exchange of -- where Shell had to
16 pay \$30 million --

17 A. I don't --

18 Q. -- in turn to the Oman
19 government?

20 A. I don't recall that.

21 Q. Do you recall, and at this
22 point I assume you were at EPG, a
23 withdrawal of the 2002 business plan in
24 Oman?

25 A. Sorry, could you repeat the

0074

1 BRIAN J. WARD

2 question.

3 Q. Do you recall learning that
4 in 2001 PDO had to withdraw the 2002
5 business plan because of the decline in

6 production?

7 A. I was aware that they were
8 going through considerable difficulties
9 with respect to the business plan, but
10 I wasn't involved.

11 Q. Do you recall whether when
12 you were at PDO reserve -- reserves
13 were part of how Shell looked at how
14 well PDO was doing?

15 MR. CLARK: Objection;
16 vagueness.

17 Q. You can answer the question.

18 MR. CLARK: If you
19 understand it.

20 A. Reserves were part of our
21 scorecard as I recall.

22 Q. And can you recall how they
23 were part of the scorecard?

24 A. We were given a target of
25 new reserves on the scorecard to

0075

1 BRIAN J. WARD

2 achieve during the year. That target
3 would be based on our own planning.

4 MR. CLARK: Were you talking
5 about proved or expectation reserves?

6 THE WITNESS: Expectation
7 reserves.

8 Q. Was -- during the time that
9 you were in Oman, were you able to meet
10 those targets?

11 A. I can't recall. It would
12 have changed over year to year.

13 Q. Okay. Do you recall any
14 conversations regarding reserves in
15 Oman, proved reserves in Oman that
16 involved bringing proved reserves of
17 mature fields in line with expectation
18 reserves?

19 A. I don't recall that detail.

20 Q. How would you characterize
21 your relationship with Mr. Watts while
22 you were --

23 A. Business-like.
24 Q. How would you characterize
25 your relationship with Mr. van de
0076

1 BRIAN J. WARD

2 Vijver?

3 A. Business-like. I had a
4 certain affinity for Mr. van de Vijver.
5 I think that was reciprocated.

6 Q. Did you ever hear anyone
7 express a position that reserves booked
8 during Watts's tenure as head of EP
9 were aggressive?

10 MS. LATIMER: Object to the
11 form. No foundation.

12 Q. You can answer the question.

13 A. I didn't hear that
14 statement. I don't recall hearing that
15 statement whilst he was in the E&P
16 position.

17 Q. Did you ever hear that
18 sentiment expressed after he left the
19 E&P position?

20 MS. LATIMER: Same
21 objection.

22 A. There was an issue whereby
23 it was considered that perhaps we'd
24 borrowed too much from the future or
25 booked too aggressively, in your words,
0077

1 BRIAN J. WARD

2 which left us with a problem in booking
3 reserves of the day because, if you
4 like, they'd already been booked.

5 Q. And was that in any part
6 attributed to Mr. Watts's tenure at EP?

7 MS. LATIMER: Object to the
8 form.

9 A. These were the guys that
10 were sitting on the chair, so the
11 overall focus on our business and where
12 we had to put our focus came from Mr.
13 Watts, and Mr. van de Vijver later.

14 Q. So when you say that there
15 was an issue whereby it was considered
16 that perhaps we borrowed too much from
17 the future which left us with a problem
18 in booking reserves of the day because
19 they'd already been booked, when was
20 that issue first raised that you can
21 recall?

22 A. When I first went on to the
23 EP executive committee.

24 Q. And when was that?

25 A. 2001.

0078

1 BRIAN J. WARD

2 Q. And do you recall who first
3 raised that at the executive committee
4 level?

5 A. The issue of reserves --
6 perhaps a bit of background, can I give
7 you a little background?

8 Q. That would be great.

9 A. We, for good or ill, had
10 joined with other oil companies in
11 presenting our results on a fairly
12 frequent basis, and not only results,
13 but targets. One of those targets was
14 reserves, another one was production,
15 another one was unit costs, and another
16 one was return on capital employed.
17 And we had clearly those particular
18 parameters were in some cases mutually
19 exclusive.

20 So indeed in the ExCom we
21 used to discuss those particular issues
22 on a frequent basis. It wasn't a one
23 person, one issue type of deal. It was
24 managing the company in general and how
25 did we handle meeting targets with

0079

1 BRIAN J. WARD

2 conflicting performance indicators.

3 Q. And when you say that we had
4 joined with other oil companies in

5 presenting our results on a fairly
6 frequent basis, when you say
7 presenting, can you describe what you
8 mean?

9 A. Sorry, presenting to
10 analysts.

11 Q. Okay. And do you recall
12 whether that had been a change that was
13 occurring at some point in time?

14 A. Yes.

15 Q. And do you recall when that
16 started happening?

17 A. I guess approximately at the
18 turn of the century, 2000. It was an
19 industry-wide trend with the exception
20 of Exxon Mobil, maybe some others that
21 I don't know of.

22 Q. Were you ever involved in
23 any analyst presentations?

24 A. No, I wasn't.

25 Q. Was it something that --

0080

1 BRIAN J. WARD

2 strike that.

3 When the issue of -- I want
4 to use your exact words or else I'm
5 going to get a series of objections, it
6 will just make it easier. So this will
7 take me a second to figure out how to
8 do this.

9 When you said that perhaps
10 the issue came up that perhaps you'd
11 borrowed too much from the future, was
12 that an issue that the company was
13 concerned was going to be picked up by
14 analysts?

15 A. That was a concern that we
16 were aware of because our reserves
17 replacement ratio stacked up poorly
18 against the competition at that time.

19 Q. And can you explain how the
20 reserve replacement ratio was
21 implicated by the issue of borrowing

22 too much from the future?

23 A. When you book reserves,
24 there is a certain flexibility afforded
25 to the company as to when they book

0081

1 BRIAN J. WARD

2 them, and it will depend upon the
3 status of field development planning,
4 appraisal well drilling and so on. You
5 can use that flexibility to accelerate,
6 for example, appraisal well drilling,
7 to allow the company to book reserves
8 earlier.

9 If your replacement ratio is
10 low, clearly you want to book reserves
11 in the year that it's low. If you have
12 already taken those reserves and
13 accelerated their booking into prior
14 years, they're not available for you to
15 book in the year where you have a
16 problem with reserves replacement.

17 Q. When you say that there's a
18 certain flexibility afforded to the
19 company, where does this flexibility
20 come from?

21 A. In every operating company
22 they have field development exploration
23 and appraisal plans in place.
24 Depending on the resource applied, the
25 time taken to execute those plans is X.

0082

1 BRIAN J. WARD

2 If you wish to apply more money and
3 more resources, you can shorten the
4 length of time it takes to execute
5 those plans and therefore bring forward
6 reserves bookings.

7 Q. Do you recall being aware of
8 a correlation between the VAR process
9 and reserve bookings back in 2001?

10 MR. CLARK: Objection to
11 form.

12 Q. You can answer.

13 A. I'm aware of the correlation
14 between the VAR process and reserves
15 bookings, yes.

16 Q. What is the correlation?

17 A. We would expect at that time
18 to have reached VAR and past VAR 3,
19 which is concept selection, meaning
20 that we've got a development plan in
21 place before we would book the
22 reserves.

23 Q. Do you recall a requirement
24 -- do you recall discussions of a
25 requirement for a final investment

0083

1 BRIAN J. WARD
2 decision as being part of the reserve
3 booking process?

4 A. I recall that discussion,
5 yes.

6 Q. What do you recall about
7 that discussion?

8 A. I recall that it would be a
9 more conservative approach, if we
10 wished to take a more conservative
11 approach, to book it FID rather than at
12 VAR 3 level.

13 Q. Where -- when do you recall
14 that discussion being had?

15 A. I don't think I recall any
16 particular discussion on it. It was --
17 it was something that evolved as we
18 went through the SEC awareness,
19 compliance awareness, which was a
20 evolutionary type of awareness on the
21 group and on staff like myself.

22 Q. When you say the group, do
23 you mean EP?

24 A. People in the operating
25 companies and our technical people in

0084

1 BRIAN J. WARD

2 The Hague.

3 Q. And so for you that began in

4 2001?

5 A. It's difficult to pinpoint
6 an exact time when I became aware, but
7 I think it was later than that. I
8 would say probably end 2001, beginning
9 2002 when the discussions around SEC
10 compliance became more frequent.

11 Q. Do you recall there being a
12 change in the Shell Group guidelines
13 with respect to reserves in 1999/2000
14 time period?

15 A. No, I don't recall that.

16 Q. When you joined ExCom, do
17 you recall in the conversations of
18 perhaps there had been some borrowing
19 from the future that there was any
20 frustration as to whether Watts's
21 success had any relation to his ability
22 to meet or exceed reserve expectations?

23 MS. LATIMER: Object to the
24 form.

25 Q. You can answer.

0085

1 BRIAN J. WARD

2 A. I have no personal
3 recollection of that being stated.

4 Q. Do you recall any
5 discussions about Watts's ability to
6 meet or exceed reserve expectations
7 when he was at EP?

8 MS. LATIMER: Object to the
9 form.

10 A. I have difficulty in
11 answering that question. I don't know
12 the discussion that you refer to has
13 taken place in Shell. I can't pinpoint
14 where or when that discussion took
15 place.

16 Q. Do you recall any of the
17 individuals involved in any discussions
18 on that subject that you were privy to?

19 A. The discussion around
20 accelerating reserves bookings was

21 discussed quite frequently, as I've
22 already said, in the ExCom. There was
23 never explicit -- to my knowledge,
24 there was never explicit statements
25 that Watts's success had been a result
0086

1 BRIAN J. WARD

2 of these accelerated bookings.

3 Q. When the accelerated
4 bookings were first discussed at ExCom,
5 were there any questions raised about
6 whether or not de-bookings would be
7 necessary?

8 A. To the best of my
9 recollection, at that time not.

10 Q. Do you recall whether or not
11 when the discussions of accelerated
12 bookings began there were any
13 discussions with regard to the SEC
14 reporting rule?

15 A. At the initial stages of
16 these discussions I can't recall SEC
17 compliance being involved.

18 Q. When the discussions of
19 accelerated bookings first began, do
20 you recall whether there were specific
21 operating units that were discussed in
22 relation to that happening?

23 A. I think -- I think it's
24 important to note that we didn't
25 discuss the words accelerated bookings.

0087

1 BRIAN J. WARD

2 What we did was we went through our
3 resource base field by field on a
4 regular basis once the reserves
5 replacement ratio issue was there on
6 the table to be fixed. And we would go
7 through every one of our big fields in
8 the group to see whether we could book
9 reserves by doing -- taking more action
10 in terms of drilling or what have you,
11 and whether there was a risk to booked

12 reserves for whatever reason.

13 So this was a normal
14 discussion and it didn't -- your words
15 of accelerated bookings really came
16 about because we would look at a field
17 in Russia, for example, and we would
18 say those reserves have already been
19 booked and there's no upside there,
20 next, and we would move on to the next
21 field.

22 Q. When you said that we went
23 through our resource base field by
24 field on a regular basis and we would
25 go through every one of our big fields

0088
1 BRIAN J. WARD

2 to see whether there was a -- you said
3 whether there was a risk to be booked
4 reserves. What did you mean by that?

5 A. With every field there was
6 potential upside to book reserves.
7 However, there could also be
8 information that came in that may risk
9 a booking that had already been
10 planned, and therefore, you might not
11 be able to book it. So, for example,
12 you were due to sign an agreement with
13 a government or you were due to drill a
14 well or you were due to take some form
15 of action which for whatever reason now
16 looked unlikely to be happening. And
17 that meant that those reserves which
18 were to be booked in the plan were no
19 longer going to be booked and therefore
20 they were -- those reserves were at
21 risk.

22 Q. Do you recall any instances at
23 ExCom where bookings that were already
24 made were considered questionable or at
25 risk?

0089
1 BRIAN J. WARD

2 A. In the initial stages of my

3 tenure with the ExCom, I don't recall
4 any fields where we felt that we had
5 booked reserves and we would have to
6 de-book them.

7 MS. MARSHALL: The videotape
8 is going to need a switching, so we can
9 just take a break now, that's fine.

10 THE VIDEO OPERATOR: This
11 marks the end of tape number 1, of
12 volume 1 in the deposition of Brian
13 Ward. Going off the record, the time
14 is 12:50.

15 (A recess was taken.)

16 THE VIDEO OPERATOR: Back on
17 the record, here marks the beginning of
18 tape 2, volume 1 in the video
19 deposition of Brian Ward. The time is
20 12:21.

21 Q. Mr. Ward, do you recall when
22 you joined EPG what was the situation
23 with SPDC at that time? Were there any
24 particular issues that were brought to
25 your attention initially?

0090
1 BRIAN J. WARD

2 A. The handover that I had from
3 Mr. Rothermund talked about the
4 security issues largely in Nigeria.

5 Q. And what were the security
6 issues?

7 A. Nigeria is in a constant
8 state of foment, and the security of
9 our staff in Nigeria is always
10 threatened by this foment and violence.

11 Q. And were there any -- as a
12 result of the security issues, were
13 there any problems with respect to
14 production issues?

15 A. There were always problems
16 historically and to this day I guess
17 with respect to local villages stopping
18 field production in order to gain
19 acquiescence to demands, for example.

20 Q. Were you aware there was a
21 moratorium on bookings for Nigeria when
22 you began your role at EPG?

23 A. I was aware.

24 Q. Do you recall when you first
25 became aware of that moratorium?

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1 BRIAN J. WARD

2 MR. CLARK: I'm sorry, can
3 we go back one question. You asked
4 about Nigeria. Was your answer about
5 Nigeria or SPDC?

6 THE WITNESS: SPDC.

7 Q. Thank you. And when did you
8 become aware of that moratorium, if you
9 recall, for SPDC?

10 A. I was aware of the
11 moratorium from when I first went into
12 EPG. I didn't tackle the issue until
13 the end of, towards the end of 2002.

14 Q. Is that when there was a
15 meeting, critical issues meeting?

16 A. Correct.

17 Q. Was that the title of the
18 meeting?

19 A. Correct.

20 Q. And that was in November of
21 2002?

22 A. That's correct.

23 Q. So when you began your role
24 at EPG did you have specific things
25 that you were focusing on?

0092

1 BRIAN J. WARD

2 A. Yes. I was also looking
3 after Europe and Argentina at the time,
4 or South America. In Europe I was
5 carrying on some work that I'd started
6 in the NAM, which was to generate a
7 Shell Europe, which consisted of an
8 amalgamation of the various EP
9 operating companies within Europe, and
10 Nigeria was, as stated before, a

11 self-contained entity and that was not
12 at the top of my agenda at that time.

13 Q. Was there anybody who was
14 focusing on Nigeria at that time?

15 A. Nigeria at that time was
16 SPDC. We hadn't really started into
17 the offshore, deep offshore at that
18 time.

19 The management of SPDC at
20 that time would have been mainly done
21 with the managing director of SPDC
22 running a self-contained operation, and
23 prior to the reorganization that we
24 talked about earlier and the person
25 sitting in the EP role in The Hague.

0093

1 BRIAN J. WARD

2 So there would have been a lot of
3 communication between, for example,
4 Phil Watts and the managing director of
5 SPDC. I was pretty much at the
6 starting point before the
7 reorganization on the outside of that,
8 and I was concentrating on Europe.

9 Q. So do you recall when you
10 turned a focus towards Nigeria?

11 A. It came with, basically with
12 the reorganization. Nigeria was
13 problematic in -- in every respect for
14 -- for many reasons, and I was given
15 the task of CEO Africa and somebody
16 else took over for me in Europe, and
17 that was the time that I started to
18 concentrate on Nigeria.

19 Q. And do you recall, if you
20 can, what month and year that was?

21 A. It was all fairly seamless.
22 I can't recall. I mean somewhere
23 around beginning of 2002 I guess.

24 Q. And was there a process you
25 went through to familiarize yourself

0094

1 BRIAN J. WARD

2 with the issues that were present in
3 Nigeria in SPDC at that time?

4 A. Yes. I went through -- I
5 went through their business plan and
6 their reports to bring myself up to
7 date.

8 Q. How far back did you go?

9 A. Well I was fairly au fait
10 with Nigeria, having worked there.
11 Clearly I wasn't up to date with the
12 politics and so on of the time and I
13 had to bring myself up to that, but I
14 didn't go back into history too much
15 other than to look at the origin of
16 some of the problems we were still
17 dealing with.

18 Q. Did you gain an
19 understanding as to why there was a
20 moratorium put on bookings for SPDC in
21 2000?

22 A. Yes.

23 Q. And what was your
24 understanding of that moratorium?

25 A. My understanding was that

0095
1 BRIAN J. WARD

2 the many development projects that we
3 had planned to mature had not been
4 matured in the time frame that we had
5 planned, and as a result, the reserves
6 bookings were considered to be too
7 high, and in order to resolve that
8 problem, it was decided to put the
9 moratorium on reserves bookings so that
10 the moratorium plus your production
11 would equal, in a short space of time,
12 the reserves that were booked which
13 perhaps are not mature enough to have
14 been booked.

15 Q. And how did you gain this
16 understanding?

17 A. Around the 2019 issue? Or
18 the -- no.

19 Q. No, what you just

20 described --

21 A. Okay.

22 Q. -- you learned that when you

23 became --

24 A. Yeah.

25 Q. -- head of EPG. Did you

0096

1 BRIAN J. WARD

2 learn that through discussions, or --

3 A. No.

4 Q. -- were you reading

5 documents, or was it something else?

6 A. It was from the documents

7 and one of my staff was asked to have a

8 look at the reserves and production

9 reconciliation.

10 Q. Do you recall who that was?

11 A. I do, yes.

12 Q. Who was it?

13 A. Phil Davis.

14 Q. And who asked Mr. Davis to

15 look at that issue?

16 A. I can't recall specifically,

17 but we had a small group in EPG of

18 maybe five or six people and we would

19 have agreed that we needed to do that.

20 Q. What was Phil Davis's role

21 at that time?

22 A. He was my number 2 man with

23 respect to basically the petroleum

24 engineering and planning side of the

25 business.

0097

1 BRIAN J. WARD

2 Q. And after he looked at the

3 reserve and production reconciliation,

4 how did he communicate his findings to

5 you?

6 A. I don't recall the exact

7 method that he communicated to me, but

8 he told me that there was clearly a

9 mismatch. However, this is now into --

10 into 2002.

11 Q. Okay. Do you know if he
12 started looking at it in 2001 or was it
13 2002?

14 A. He -- he was involved with
15 Nigeria prior to my taking over as CEO,
16 yes.

17 Q. Had he been directed to
18 specifically look at this prior to your
19 taking over as CEO?

20 A. His job at that time was a
21 regional business advisor supporting
22 the reasonable -- regional business
23 director, and his job was to advise the
24 regional business director whether he
25 felt the company was being managed

0098

1 BRIAN J. WARD
2 properly by looking at documents, going
3 to meetings with the company and that
4 sort of thing. So he would have picked
5 this up in the normal course of his
6 work.

7 Q. And do you recall whether
8 this mismatch was communicated to ExCom
9 around this time?

10 A. ExCom didn't exist at this
11 time, but it would have been
12 communicated by the managing director
13 of SPDC to Phil Watts I guess at that
14 time.

15 Q. So this is in -- what -- you
16 don't have to -- I'm a little fuzzy on
17 the dates. When did --

18 A. Me too, yes.

19 Q. Okay. When did ExCom come
20 into existence?

21 A. The problem for me to give
22 you a date is that prior to the ExCom
23 it was called the business committee.

24 Q. Okay?

25 A. The BusCom.

0099

1 BRIAN J. WARD

2 Q. Okay.

3 A. And the BusCom became the
4 ExCom.

5 Q. Was it structured similarly?

6 A. It was structured very
7 similarly, but now the individual
8 members had a much sharper and tighter
9 accountability for performance.

10 Q. Was the head of the BusCom
11 the head of EPG -- the head of EP?

12 A. Yes.

13 Q. So prior to being head of
14 ExCom, Mr. Watts would have been head
15 of BusCom?

16 A. Correct.

17 Q. When you moved into the role
18 of head of EPG, was it BusCom or ExCom?

19 A. It was just becoming ExCom
20 because Phil had moved to the MD
21 position and Walter van de Vijver came
22 in and took over the ExCom. So it had
23 just happened I guess by the time I got
24 there.

25 Q. Do you recall whether or not

0100
1 BRIAN J. WARD

2 Mr. van de Vijver would have ever been
3 considered the head of BusCom, or by
4 the time he assumed that position it
5 was ExCom?

6 A. My --

7 Q. Or did that happen at the
8 same time?

9 A. My understanding is he would
10 have been head of ExCom rather than
11 BusCom.

12 Q. Okay. Do you recall when
13 you assumed the role at EPG having
14 conversations regarding the problems
15 with reconciling the reserves in SPDC
16 with Mr. van de Vijver?

17 A. No.

18 Q. Do you recall whether that
19 issue was ever brought to ExCom?

20 A. The issue of the moratorium
21 was on the table prior to my arrival. We
22 didn't discuss Nigeria or I didn't
23 discuss Nigeria specifically with van de
24 Vijver until I became CEO of Africa. And
25 that was because, as I say, Nigeria was a
0101

1 BRIAN J. WARD

2 self- -- SPDC was a self-contained
3 entity.

4 Q. So becoming -- I think this
5 is -- I'm just getting confused. So
6 when you were head of EPG you were not
7 the CEO of Africa, they're not the same
8 thing?

9 A. No.

10 Q. Okay. I'm sorry, it's just
11 my confusion.

12 A. It is -- it is confusing
13 because we're going through a
14 transition process.

15 Q. Okay.

16 A. And I'm not doing a very
17 good job of describing that transition
18 process. Included in that is the fact
19 that I came in in the middle of it all.
20 So yes, it's difficult, but I came in,
21 took over from Heinz Rothermund when he
22 was a regional business director, not a
23 CEO.

24 Q. Okay.

25 A. And that was for a short
0102

1 BRIAN J. WARD

2 period of time when he had
3 responsibilities for Nigeria which were
4 really nonexistent because Nigeria was
5 self-contained. He had
6 responsibilities for Europe and for
7 South America. That's what I took over
8 on day 1 from Heinz Rothermund. I then

9 concentrated on Europe. Then this
10 process came to the regional business
11 director to CEO transformation
12 happened, and the ExCom was formed from
13 the BusCom and then I took off as the
14 CEO of Africa.

15 Q. Okay, thank you. So when
16 you were the CEO of Africa, is that
17 when you first recall having
18 conversations with Mr. Davis about the
19 reserve situation in SPDC?

20 A. I'd had conversations with
21 him beforehand about the general state
22 of affairs in Nigeria, but at that time
23 I wasn't taking any specific action. I
24 was just being informed.

25 Q. And had he begun the process

0103

1 BRIAN J. WARD
2 of trying to reconcile the reserves in
3 SPDC when you first joined EPG prior to
4 becoming the CEO of Africa?

5 A. He had no resources to be
6 able to start reconciliation himself.
7 He could only point out to the
8 management or the technical people
9 within SPDC that he felt there was
10 something wrong with this
11 reconciliation and had they look at it
12 and could he get some information, that
13 sort of process.

14 Q. And do you recall whether or
15 not that was discussed at BusCom?

16 A. As I said, the moratorium
17 happened prior to my arrival and it had
18 therefore had to have been on the
19 table. I was not involved.

20 Q. Okay. When he began -- when
21 you moved to the role and the
22 reorganization had you as the CEO of
23 Africa, did you have more in-depth
24 conversations with him about the
25 reconciliation of reserves in SPDC?

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1 BRIAN J. WARD

2 A. Yes, I did.

3 Q. And do you recall how those
4 conversations started?

5 A. The conversations that I
6 would have with Phil Davis would be
7 around a variety of issues which he
8 felt needed to be managed better in
9 SPDC. At about this stage, and with
10 the authority of the CEO position now
11 in place, I called a meeting of their
12 management team in The Hague in
13 November 2002, and the objective of
14 that meeting was to spend a day to
15 discuss and prioritize the key issues
16 which we needed to focus on in order to
17 manage SPDC better. One of those
18 issues was reserves.

19 Q. And what do you recall about
20 the discussions on reserves from that
21 meeting?

22 A. We -- we agreed that one of
23 the key parameters we need to clarify
24 was 2019 extension because if we could
25 get that away, out of the way, then we

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1 BRIAN J. WARD

2 had a much clearer run at resolving the
3 -- any -- any issues arising out of our
4 reserves work, but we also agreed that
5 we needed to start a revamp of our
6 total technical work on the reserves in
7 SPDC. When I say reserves, I'm talking
8 expectation reserves.

9 Q. And when you say we had a
10 much clearer run at resolving any
11 issues arising out of our reserves
12 work, can you explain what you mean by
13 that?

14 A. The 2019 end of license had
15 been used to define the moratorium, and
16 it was used continually in discussions

17 with respect to the reserves position.
18 The reserves position in Nigeria during
19 the period 2000, or even prior to 2000,
20 up until my retirement, was a highly
21 complex network of conflicting forces.
22 It was not, and I think it's very
23 important to understand this, it was
24 not a question of we have a field here
25 with some reserves in, let's just check

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1 BRIAN J. WARD

2 out that the figure's okay.

3 For a start, the complexity
4 of the numbers of fields, blocks and
5 reservoirs and wells would eventually
6 ended up with thousands. We had
7 problems with reconciling our supply to
8 LNG, whether it was nonassociated gas
9 or associated gas that was going to do
10 it. If it was associated gas that
11 meant certain field developments had to
12 be in place in time for that associated
13 gas to be available. So to get it to
14 gas you produce with the oil.

15 We had a 2008 deadline for
16 flaring gas which reflected back
17 straight away to the associated gas and
18 the development of the oil fields that
19 produced that associated gas.

20 We had a problem with all
21 our plans being either deferred or
22 reduced or both because of lack of
23 funding from the government.

24 So the picture I'm trying to
25 present to you is one of a very complex

0107

1 BRIAN J. WARD

2 network of conflicting factors here.

3 It was not a reservoir engineering
4 issue per se.

5 Q. And was that complexity of
6 issues immediately apparent?

7 A. The key forces playing in

8 that complexity were immediately
9 apparent. What their impact was and
10 how they interrelated certainly was
11 not.

12 Q. And was it -- when you were
13 charged with the role of being CEO of
14 Africa, was straightening out these
15 issues one of your main focuses?

16 A. It was my top priority.

17 MS. MARSHALL: I think it's
18 the time that we said we were going to
19 break, so if you want to do that,
20 that's fine.

21 MR. FERRARA: Great.

22 THE VIDEO OPERATOR: Going
23 off the record, the time is 12:45.

24 (Lunch recess: 12:45 p.m.)
25

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1 BRIAN J. WARD

2 A F T E R N O O N S E S S I O N

3 1:40 p.m.

4 THE VIDEO OPERATOR: Going
5 back on the record, the time is 13:40.

6 B R I A N J. W A R D,
7 resumed, having been previously duly
8 sworn, was examined and testified
9 further as follows:

10 CONTINUED EXAMINATION

11 BY MS. MARSHALL:

12 Q. Who attended the critical
13 issues meeting in November 2002, if you
14 recall?

15 A. The EPG team and the senior
16 management from SPDC.

17 Q. And were future production
18 forecasts for SPDC discussed?

19 A. Not per se. Clearly, issues
20 surrounding the effectiveness of
21 operations affected production, and the
22 objective of enhancing the efficiency
23 of the operation would improve
24 production.

25 Q. Was there a discrepancy in

0109

1 BRIAN J. WARD

2 SPDC between production and production
3 forecasts, actual production and
4 production forecasts?

5 A. Yes, and on a continual
6 basis.

7 Q. And what was the
8 discrepancy?

9 A. The discrepancy was that we
10 never achieved the production forecast
11 in any one year and we always had to
12 carry forward that production forecast.

13 Q. And what do you attribute
14 the discrepancy to?

15 A. Most significantly would be
16 the lack of investment by the
17 government, which curtailed our plan.

18 Q. Were OPEC quotas an issue?

19 A. They were a peripheral
20 issue.

21 Q. How is that?

22 A. The -- in principle, we
23 could find ourselves in a position
24 where we'd invested a large amount of
25 money into increased production and

0110

1 BRIAN J. WARD

2 that production would have to stay in
3 the ground simply because Nigeria had
4 an OPEC agreement. In practice, the
5 OPEC agreement really never bit in
6 Nigeria.

7 Q. Practically, how did the --
8 were production forecasts made prior
9 to, or independent of discussions with
10 the Nigerian government with respect to
11 their funding?

12 A. The process would be that we
13 would present a plan to government and
14 they would agree to a budget. Often
15 the budget would be agreed, would be

16 the one we'd ask for. As time went on,
17 that became less and less, but
18 regardless of what they agreed to, how
19 much they actually invested was
20 something else.

21 Q. Did Shell not take that into
22 consideration when making production
23 forecasts?

24 A. Certainly.

25 MR. CLARK: Certainly it did

0111

1 BRIAN J. WARD

2 or certainly it didn't?

3 A. Certainly they took it into
4 consideration, but of course to try to
5 forecast what the government was going
6 to do in any particular year was
7 extremely difficult.

8 Q. Was the reserve replacement
9 ratio discussed at this meeting?

10 A. No.

11 Q. Was the reserve replacement
12 ratio a top issue at EP in 2002?

13 A. The reserve replacement
14 ratio was one of the four key
15 parameters we discussed earlier, and it
16 was a common topic on the ExCom agenda.

17 Q. Did SPDC ever factor into
18 those discussions?

19 A. The one overriding factor
20 around SPDC was the reserves issue was
21 a technical issue, it was not anything
22 to do with the base resources available
23 in the country. There were huge
24 resources available in the country.
25 The question was rather were we at some

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1 BRIAN J. WARD

2 sort of maturity with a particular
3 project to book those reserves in a
4 particular field.

5 So the discussion wasn't
6 around reserves per se, it was much

7 more around the operation itself.

8 Q. Was the business plan issue
9 separate from the question of the
10 license expiry problem?

11 A. We hadn't got close enough
12 to the license limit for it to have a
13 major effect on our planning at that
14 time.

15 Q. And did at some point the --
16 did at some point you receive guidance
17 that the license expiry issue shouldn't
18 be considered a major source of concern
19 with respect to booking reserves?

20 A. That's correct.

21 Q. Do you recall when that was?

22 A. It -- I can't recall exactly
23 when it was. The issue was kicked off
24 to be resolved at the critical issues
25 meeting in November, and we took

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1 BRIAN J. WARD

2 guidance on the legality of extension
3 and that guidance that came back to us
4 was that as long as we had performed
5 our role as a prudent operator then we
6 had a right to a license extension.

7 Q. Did the SPDC business plan
8 that was in place in late 2002 and
9 early 2003 include the use of
10 associated gas techniques?

11 A. All business plans with
12 respect to the development of oil
13 fields had to include the management of
14 produced associated gas.

15 Q. And was there -- is there
16 separate funding for associated gas in
17 a business plan?

18 A. No. The funding was
19 embedded in the oil development
20 funding.

21 Q. Was there ever an issue
22 about whether there was adequate
23 funding for the associated gas in SPDC?

24 A. There was an issue to the
25 extent that we had hoped that the large
0114

1 BRIAN J. WARD

2 part of the supply to the LNG plants
3 would be associated gas. If we were
4 unable to fund the development of the
5 oil fields then de facto we were short
6 of associated gas to supply to the LNG
7 plant.

8 Q. Were you able to have --
9 were you able to fund the development
10 of the oil fields as --

11 A. No.

12 Q. -- as the business plan had
13 anticipated?

14 A. No.

15 Q. Why was that?

16 A. Because we didn't get
17 adequate funding from the government
18 for their 55 percent share.

19 Q. And when was that made
20 clear?

21 A. It was a continuous process.

22 Q. When the -- when you had
23 been advised that the license expiry
24 issue had been resolved with respect to
25 reserves, were reserves still an issue

0115

1 BRIAN J. WARD

2 that Mr. Davis was looking at?

3 A. Reserves and field
4 management were a considerable problem
5 in Nigeria from the technical point of
6 view and continued to be for all the
7 time that I was CEO.

8 Q. After the meeting in
9 November of 2002, was any -- were any
10 specific actions taken as a result of
11 that meeting?

12 A. A large number of specific
13 actions.

14 Q. Do you recall what any of

15 them were?

16 A. I guess I recall that each
17 of the focal points for the critical --
18 each of the critical issues was tasked
19 with putting a plan together to resolve
20 those issues.

21 Q. And do you recall what plan
22 was put together with respect to future
23 production forecasts?

24 A. The production forecast
25 issue was a consequence, not a -- it

0116

1 BRIAN J. WARD
2 was a consequence of not having plans
3 in place because of funding from the
4 government. So one of the actions that
5 we had in place was to get better
6 relations with the government to be
7 able to work on the funding, or
8 alternative funding means.

9 Another effect on the
10 production was the efficiency of our
11 operations and we had a set of plans to
12 improve the efficiency of our
13 operations.

14 Q. Did the situation change
15 significantly with respect to the
16 government and funding as a result of
17 those actions?

18 A. We had several very good
19 meetings with the government, but the
20 bottom line was that the difficulties
21 with respect to funding remained.

22 Q. Do you recall whether or not
23 the SEC rule regarding reserve
24 reporting was discussed at all during
25 this meeting?

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1 BRIAN J. WARD

2 A. It was not to my
3 recollection.

4 Q. I'm going to show you a
5 document which we'll mark as Ward

6 Exhibit number 2 for identification.
7 It has Bates V 00120472 through 485.
8 It's an email and then has a note for
9 information, CMD 11th February 2002
10 attached.

11 (Ward Exhibit 2 for
12 identification, Bates stamped V
13 00120472 through 485.)

14 Q. If you'd take a moment and
15 look at the document. We're not going
16 to go through every single page of the
17 document by any means, so I'm trying to
18 figure out to what extent -- I don't
19 know if you've reviewed this recently,
20 but if you haven't, if you just want to
21 look at it to the extent that you can
22 see if you've seen it before. Maybe
23 you should --

24 MR. FERRARA: Are there any
25 pages in particular you'd like him to

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1 BRIAN J. WARD
2 focus on?

3 Q. In this second page of the
4 CMD note it talks about exposures. Why
5 don't you read to -- read that section
6 and competitive landscape under
7 appraisals on the next page.

8 MR. FERRARA: So do you want
9 to direct our attention anywhere?

10 Q. Do you recognize this
11 document?

12 A. I haven't seen this document
13 before.

14 Q. If we look at the first page
15 this appears to be an email from Lorin
16 Brass and you're one of the recipients;
17 is that correct? It's dated February
18 20th, 2002?

19 A. Yes.

20 Q. If you look at the first
21 page of the attachment it says "Note
22 for information, CMD, February 11th,

23 2002." Can you tell me generally what
24 a note for information is as it's used
25 within the company?

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1 BRIAN J. WARD

2 A. It's exactly what it says in
3 the sense that it's information passing
4 and it's not requiring a decision.

5 Q. Typically are notes for
6 information addressed to particular
7 groups or group within the company?

8 A. Yes.

9 Q. And typically, what group or
10 groups are they addressed to, or
11 circulated amongst?

12 A. Usually the executive
13 committee level or the CMD.

14 Q. So in this case were you a
15 member of the CMD ever?

16 A. No.

17 Q. If you look at the email
18 there's a list of individuals. Were
19 those individuals members of ExCom?

20 A. Most of them, yes.

21 Q. Would it have been typical
22 for you to receive a note for
23 information such as this?

24 A. Reasonably frequently, yes.

25 Q. Okay. Do you have any

0120

1 BRIAN J. WARD

2 reason to doubt that you received this
3 note for information?

4 A. I've no reason to doubt it.

5 Q. Okay. When you received
6 notes for information did you typically
7 review them?

8 A. It would depend very much on
9 the workload at the time and whether I
10 felt that my particular region was
11 implicated in the actions or proposals
12 or whatever that were in the note for
13 information.

14 Q. Do you recall whether or not
15 you reviewed this particular note?

16 A. No, I -- I don't recall the
17 note at all.

18 Q. Might you have reviewed it,
19 or are you --

20 A. I may -- I may have scanned
21 through it.

22 Q. Okay. You just don't recall
23 either way?

24 A. I just don't recall.

25 Q. Okay, fine. If you look to

0121

1 BRIAN J. WARD

2 the bottom of the second page of the
3 note it says "Exposures." Where it
4 reads "Securities & Exchange Commission
5 SEC alignment," do you recall reading,
6 or do you recall -- since you don't
7 recall whether you read this note at
8 all, do you recall ever learning that
9 there was a view that the group
10 guidelines for proved reserves bookings
11 are no longer fully aligned with the
12 SEC rules?

13 A. I was aware of that, yes.

14 Q. Do you recall how you became
15 aware of that?

16 A. It was an evolutionary
17 process over these years that we're
18 talking about. The gravity of the
19 situation with respect to misalignment
20 of our reserves reporting and the SEC
21 rules, the gravity of the consequences
22 were not known to people like myself
23 and my colleagues, we're colleagues,
24 way into -- until way into 2003. Up
25 until that time the issue was treated

0122

1 BRIAN J. WARD

2 very much as something that had to be
3 fixed. It would probably be
4 administrative, but we had no inkling

5 that -- that the gravity of the
6 situation was as it was going to turn
7 out to be.

8 Q. Prior to this time period
9 did you -- strike that.

10 Do you recall that Angola
11 was one of the areas that were of
12 potential concern regarding the
13 alignment of the reserves with the SEC
14 rule?

15 A. No.

16 Q. Did you ever become aware
17 that there was an issue with proved
18 reserves that had been reported for
19 Angola with respect to the alignment
20 with the SEC rule?

21 A. I can't recall.

22 Q. Was Angola one of the areas
23 in your control, or --

24 A. It was. Sorry.

25 Q. That's fine.

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1 BRIAN J. WARD

2 A. It was. I came in -- onto
3 the scene when the reserves or the
4 maturity of the field development had
5 reached more or less the end of its
6 appraisal stage. BP were the operator.
7 I therefore didn't have the operational
8 responsibility like I did in other
9 operating companies.

10 Q. Do you recall being advised
11 about whether or not proved reserves
12 had been booked in Angola?

13 A. I don't recall.

14 Q. Do you ever recall learning
15 that reserves that had been booked as
16 proved in Angola were eventually
17 recategorized?

18 MR. CLARK: Objection; lack
19 of foundation.

20 A. I don't recall that
21 happening.

22 Q. When you became the CEO for
23 Africa, did you ever endeavor to look
24 at the reserves that had been booked in
25 the different geographical locations
0124

1 BRIAN J. WARD

2 under your control?

3 A. Could you repeat the
4 question.

5 Q. Sure. I'll rephrase it.

6 When you came on as CEO of
7 Africa, did you -- what, if anything,
8 did you do to familiarize yourself with
9 what had been going on in Angola in
10 recent years?

11 A. The issue that I was
12 confronted with in Angola was a
13 discrepancy in our forecasts for costs
14 and for reserves expectations with BP,
15 the operator, and that's what I dealt
16 with.

17 Q. And what actions did you
18 take to deal with that?

19 A. We divested.

20 Q. When you were looking at
21 what to do in Angola, were you aware
22 that reserves had been booked, proved
23 reserves had been booked for Angola
24 field 18?

25 A. Block 18. I wasn't aware
0125

1 BRIAN J. WARD

2 that they had been booked, but then
3 this would have been put into our
4 reserves booking tabulations. I
5 wouldn't necessarily have come across
6 it. But I simply wasn't aware of the
7 proved reserves that had been booked
8 for Angola or the de-booking.

9 Q. When you were first
10 appraised of what was going on in
11 Angola and block 18, do you recall what
12 stage Block 18 was in terms of its

13 development?

14 A. We had more or less
15 completed the appraisal drilling and we
16 had about firmed up the manner in which
17 we were going to develop the field with
18 an FPSO, floating production storage
19 unit, and there was still several
20 outstanding negotiations with the
21 Angolan government.

22 Q. Had a final decision been
23 made as to whether or not the field
24 should -- Block 18 should be developed?

25 A. At that time, no. Later on,

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1 BRIAN J. WARD

2 BP took a sole risk decision to go
3 ahead and we had a period of time
4 whether to join in or back out.

5 Q. And the decision was to back
6 out?

7 A. No, the decision was to join
8 in.

9 Q. And what happened after
10 that?

11 A. After that we tried, we
12 worked hard on a technical level to
13 reconcile our differences and to
14 convince BP to resolve some of the
15 outstanding issues prior to making
16 large, irreversible expenditures.

17 Q. And what was the final
18 conclusion?

19 A. The final conclusion was
20 that BP were going to go ahead anyway
21 and we divested our share of Angola
22 Block 18.

23 Q. And do you ever recall any
24 conversations of any implications that
25 would have on the reserves that had

0127

1 BRIAN J. WARD

2 been booked for Angola?

3 A. I recall that divesting

4 Block 18 would require that we
5 de-booked the reserves.

6 Q. When was the decision made
7 to divest in Angola?

8 A. I can't recall.

9 Q. Do you know why Angola was
10 included on this list of potentially
11 exposed legacy reserve bookings in
12 February of 2002?

13 MR. CLARK: Objection to
14 form.

15 Q. If you look at the bottom of
16 the second page of the note it says,
17 "Recently the SEC issued clarifications
18 that make it apparent that the group
19 guidelines for booking proved reserves
20 are no longer fully aligned with the
21 SEC rules. This may expose some 1,000
22 mln boe of legacy reserves bookings,
23 e.g. Gorgon, Ormen Lange, Angola and
24 Waddenzee, where potential
25 environmental, political or commercial
0128

1 BRIAN J. WARD

2 showstoppers exist." So my question to
3 you is whether you have any
4 understanding why Angola was included?

5 A. I can't speak for whoever
6 wrote this particular paragraph. The
7 -- there were outstanding issues with
8 the government which had not been
9 resolved, would have cost a large
10 amount of money if they were resolved
11 to the government's favor, and it could
12 have been.

13 Q. Okay, in the second
14 paragraph under that one it says "End
15 of license." It says "In Oman PDO, Abu
16 Dhabi and Nigeria, SPDC, 18 percent of
17 EP's current production, no further
18 proved reserves can be booked since
19 it's no longer reasonably certain that
20 the proved reserves will be produced

21 within license." Do you recall
22 discussions regarding this issue in
23 February of 2002?

24 MR. CLARK: Objection to
25 form.

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1 BRIAN J. WARD

2 A. Sorry, can you be more
3 specific with the question.

4 Q. Sure. Do you recall
5 discussing the end of license, proved
6 reserve booking issue in Nigeria SPDC
7 in February of 2002?

8 A. I don't recall that specific
9 date, but it was an issue that was
10 discussed on various occasions.

11 Q. I'm going to show you a
12 document which we'll mark as Exhibit
13 number 3 for identification. It's
14 Bates LON 01830061 through 64. Sorry,
15 60 through 64, sorry.

16 (Ward Exhibit 3 for
17 identification, Bates stamped LON
18 01830060 through 64.)

19 Q. It's not that long of a
20 document so you might just review the
21 whole thing.

22 MR. FERRARA: Did you --

23 Q. I've asked him just to
24 review the document. Have you had a
25 chance to review it?

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1 BRIAN J. WARD

2 A. I've scanned it, yes.

3 MR. CLARK: Have you
4 reviewed it to your satisfaction?

5 THE WITNESS: I think so. I
6 haven't looked at the diagrams yet.

7 Q. I'm not going to go into the
8 diagrams in any detail.

9 MR. CLARK: Just take a look
10 at it.

11 A. Okay.

12 Q. Do you recognize this

13 correspondence?

14 A. I recognize the content.

15 Q. What do you recall about the

16 content of these emails?

17 A. There was --

18 Q. Or the content of the

19 discussions surrounding these emails?

20 A. Okay. There was continual

21 discussion around the booking of

22 reserves for future LNG trains,

23 imminent train 3 and future trains 4

24 and 5. The booking of reserves was

25 part of the complex web that we talked

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1 BRIAN J. WARD

2 about earlier, because it depended on

3 the split between unassociated and

4 associated gas reserves, and also the

5 reserves that we carried for domestic

6 consumption. And the reserves that we

7 carried for domestic consumption looked

8 inflated at that time because many of

9 the projects which we were asked to

10 provide gas for simply didn't get off

11 the ground.

12 That was the background to

13 it.

14 Q. Why didn't the projects get

15 off the ground?

16 A. I can't answer the question

17 because these were projects for all

18 sorts of ancillary type industries

19 which I had nothing to do with. It was

20 usually financing.

21 Q. What was -- had -- was there

22 a time that the trains 4 and 5 bookings

23 were made for those reserves?

24 A. I don't recall.

25 Q. In the email at the bottom

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1 BRIAN J. WARD

2 of the first page of the exhibit it's

3 from Mr. Duhon to yourself and Mr.
4 Davis is cc'd. He writes towards the
5 bottom, "The basic story is a familiar
6 theme: There is already an excess of
7 gas reserves on the books that
8 implicitly cover the T 4 to 5 volumes."
9 Do you understand what he meant by
10 that?

11 A. The complexity of the
12 situation with respect to these gas
13 reserves was such that we had to be
14 very careful we didn't double book.
15 When you were looking at the LNG
16 developments from a gas ExCom point of
17 view, as Linda Cook was doing in this
18 particular email, she was saying, hey,
19 guys, I've developed two trains, surely
20 this means that you can book reserves
21 against this commercial venture.

22 What she wasn't aware of was
23 the complexity of the various issues
24 that we were dealing with in SPDC with
25 respect to the totality of the reserves

0133

1 BRIAN J. WARD
2 which were all interrelated. Hence the
3 confusion why can't we book reserves
4 for T 4/T 5, because we don't have a
5 clear understanding in our own mind
6 whether that's appropriate or not, from
7 my side.

8 Q. And why might it not have
9 been appropriate?

10 A. Because if we had decided,
11 if we did decide, as we did at a
12 certain stage, that the domestic gas
13 supplies already figuring in the
14 reserves were excessive they would be
15 offset against whatever you would have
16 booked for T 4 and T 5.

17 Q. And why might the reserves
18 from the domestic gas supply might have
19 been excessive?

20 A. We had booked in our plan
21 against contracts which were either
22 signed or about to be signed for
23 various industries, and those
24 industries never came into being. Or
25 if they did, they came in much later or
0134

1 BRIAN J. WARD

2 smaller.

3 Q. Okay. And were these issues
4 issues that were discussed generally
5 with ExCom?

6 A. They were discussed in
7 ExCom, but not on a general frequent
8 basis certainly.

9 Q. What were the lines of
10 communication like between yourself and
11 Mr. van de Vijver in 2002 to 2003?

12 A. My modus operandi was that
13 if I was to take any decision which I
14 felt was potentially affecting the
15 group position I would always seek Mr.
16 van de Vijver's okay before I did it.

17 Q. And did he ever communicate
18 with you directly regarding any issues
19 or problems that he wanted to bring to
20 your attention?

21 A. Yes, he did.

22 Q. Do you recall any specific
23 instances of that with regard to
24 reserves?

25 A. With regard to reserves?

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1 BRIAN J. WARD

2 The reserves issue was discussed
3 repeatedly in the ExCom. He wouldn't
4 necessarily have phoned me directly. I
5 mean we -- we discussed the issue of
6 reserves replacement many times.

7 Q. Do you recall the first time
8 you heard mention of the question of
9 whether de-bookings would be necessary
10 in any of the locations within your

11 regional control?

12 A. This is de-bookings of
13 proved reserves that have already been
14 booked?

15 Q. Yes.

16 A. Those discussions, to the
17 best of my recollection, started to
18 happen in the second half of 2003,
19 excluding A&D. That's acquisition and
20 divestment.

21 Q. Do you recall the context of
22 the first discussions of de-booking of
23 proved reserves?

24 A. No, I don't recall that.

25 Q. Do you recall who first

0136

1 BRIAN J. WARD

2 brought it up?

3 A. No, I don't recall that.

4 Q. I'm going to show you a
5 document which we'll mark as Exhibit
6 number 4 for identification. It's
7 Bates V 00230705 through 721.

8 (Ward Exhibit 4 for
9 identification, Bates stamped V
10 00230705 through 721.)

11 Q. It's a long document, so
12 I'll just first ask if you recognize it
13 and then I'm going to direct you to
14 specific pages.

15 A. I recognize the content.

16 Q. Now beginning on the second
17 page of the exhibit it says "Note to
18 CMD, Nigeria country review 2002." Do
19 you know who created this document?

20 A. I'm sorry, I missed the
21 question.

22 Q. Who created this document?

23 A. This was done by Frank
24 Denelle who worked in our regional
25 office.

0137

1 BRIAN J. WARD

2 Q. What was his role?

3 A. His role was to provide an
4 overview across upstream/downstream
5 manufacturing in any given particular
6 area.

7 Q. Do you know why this
8 document was created?

9 A. The document was a country
10 review document which was created on a
11 regular basis for all our investment
12 areas.

13 Q. How frequently would these
14 reviews be done for each area?

15 A. Probably every two years.

16 Q. And then Mr. van de Vijver
17 would submit the reviews to the CMD?

18 A. Yes.

19 Q. Do you recall whether or not
20 you reviewed this document prior to it
21 being issued to the CMD?

22 A. I can't recall reviewing the
23 document.

24 Q. Do you recall viewing other
25 documents like this one?

0138

1 BRIAN J. WARD

2 A. I recall in generic terms
3 reviewing documents and reviewing
4 proposals people like Frank Denelle
5 would submit about my areas of
6 operation, yes, as a generic answer.

7 MR. CLARK: Before they were
8 issued to the recipients or after?

9 THE WITNESS: Before they
10 were. I would usually be asked to
11 comment.

12 Q. Okay. Is it likely that you
13 were asked to comment on this note
14 prior to it being issued?

15 A. It's likely.

16 Q. If you look at the sixth
17 paragraph at the bottom it says,
18 "Shell's production is currently

19 constrained by OPEC quota restrictions
20 and proved reserves have been subject
21 to a booking moratorium since 2000,
22 reflecting delays in delivery of the
23 growth plan." Do you agree with that
24 statement?

25 A. In principle I agree with

0139

1 BRIAN J. WARD

2 the statement. In practice the
3 constraint by the OPEC quota was
4 minimal.

5 Q. Was the EA -- in the -- like
6 two paragraphs after that it says,
7 "There are key milestones associated
8 with growth delivery in the next 18
9 months - start up of EA and Bonga,
10 Nigeria elections, developments on OPEC
11 and quota." Was the EA Field a part of
12 SPDC?

13 A. Yes.

14 Q. Was that a shallow water
15 field?

16 A. Yes.

17 Q. Do you know whether or not
18 SDS ever provided any technical
19 assistance with respect to the work
20 that was done on that field?

21 A. I am not aware that SDS
22 provided any technical assistance. I
23 am aware that the project manager and
24 team for this development was in
25 Nigeria.

0140

1 BRIAN J. WARD

2 Q. Okay. And the Bonga project
3 was part of SNEPCO?

4 A. Bonga was part of SNEPCO.

5 Q. And Shell Deepwater Services
6 worked on the Bonga project, correct?

7 A. Shell -- Shell Deepwater
8 Services had two -- had two inputs to
9 Bonga project. One was that the basin

10 study geology work and seismic work had
11 been done by SDS technical people in
12 the exploration stage, and they
13 provided some advice to the Bonga
14 project itself for the development of
15 the field.

16 Q. Do you have any knowledge
17 about whether or not the reserves from
18 the EA Field were recategorized or
19 restated?

20 A. No.

21 MR. CLARK: Objection; lack
22 of foundation. The answer is no.

23 Q. If you look at Page 11 of
24 the note, which is Bates 230716, where
25 it says -- paragraph 3.8 --

0141

1 BRIAN J. WARD

2 MR. CLARK: Do you want a
3 minute to look at this page, have you
4 had a chance?

5 A. Am I being asked to read
6 paragraph 3.8?

7 Q. Yes.

8 A. Yes.

9 Q. Is a growth program the same
10 as a business plan?

11 A. Yes.

12 Q. Okay. Was this your
13 understanding -- does this, what's
14 written in this paragraph reflect your
15 understanding at the time, or is it
16 consistent with your understanding at
17 the time?

18 A. It's consistent.

19 Q. Okay. Do you recall ever
20 having any conversations at the ExCom
21 level about the risk of de-booking with
22 regard to the SPDC proved oil reserves
23 in this time period? I think it's
24 stated at the end of the document,
25 which is May of 2002, 30 May 2002.

0142

1 BRIAN J. WARD

2 MR. CLARK: Objection; asked
3 and answered.

4 Q. The date is before the --
5 it's Page 14 of the document.

6 A. Okay. I can't -- I'm unable
7 to confirm or otherwise dates for these
8 sorts of discussions. We held
9 discussions on these things on a
10 regular basis. The intensity of those
11 discussions would be high or low
12 depending on what other priorities were
13 on the agenda. I can't -- I can't
14 specifically -- specify.

15 Clearly as time moved
16 through 2002 and 2003 and the SEC issue
17 started to loom large towards the end
18 of 2003 the word de-bookings became
19 more prevalent in the discussions. To
20 start, I'm unable to specify dates on
21 these things.

22 Q. Do you recall Mr. Watts
23 being part of the conversations
24 regarding de-bookings at any time?

25 A. No.

0143

1 BRIAN J. WARD

2 Q. Did you make any
3 presentations to the CMD during this
4 time period, 2002/2003, if you recall?

5 A. I made one presentation to
6 the CMD.

7 Q. When was that?

8 A. I can't remember.

9 Q. Do you recall what the
10 presentation regarded?

11 A. Clearly about SPDC and
12 Nigeria, and I put in a document about
13 the critical, critical projects that we
14 were working on, but I'm speculating.

15 MR. CLARK: Hold on one
16 second.

17 (Witness and counsel confer.)

18 MR. CLARK: When we finish

19 this document maybe we'll take a five
20 minute break.

21 MS. MARSHALL: Okay.

22 Q. Do you recall what the
23 critical projects that you were working
24 on at the time in SPDC that was the
25 subject of the presentation to the CMD?

0144

1 BRIAN J. WARD

2 A. I don't recall clearly.

3 Q. Okay. Do you have any vague
4 recollection?

5 A. I have a vague recollection,
6 yes.

7 Q. What's your vague
8 recollection?

9 A. That I was asked to report
10 back to the CMD on some issues
11 regarding SPDC.

12 Q. If you look at the next page
13 of the document there's a chart here.

14 A. Yes.

15 Q. Do you recognize this chart?

16 A. Yes, I recognize the chart.

17 Q. And can you explain it,
18 please?

19 A. It simply shows what we used
20 to call the horsetail effect, where the
21 business plan production forecasts were
22 delayed by a year every year, with an
23 overall declining trend in production.

24 Q. And to what did you
25 attribute the overall declining trend

0145

1 BRIAN J. WARD

2 in production?

3 A. The lack of investment into
4 our fields and the inefficiency of our
5 operations in Nigeria.

6 I should also add the
7 difficulty of running these fields in a
8 violent and unrest situation.

9 MS. MARSHALL: Okay. We can

10 take a break now, thank you.

11 MR. CLARK: Great.

12 THE VIDEO OPERATOR: This

13 marks the end of tape number 2, volume

14 1, in the video deposition of Brian

15 Ward. Going off the record, the time

16 is 14:39.

17 (A recess was taken.)

18 THE VIDEO OPERATOR: Back on

19 the record. Here marks the beginning

20 of tape number 3, volume 1 in the video

21 deposition of Brian Ward. The time is

22 14:56.

23 Q. Mr. Ward, I'm going to mark

24 as Exhibit number 5 a document that was

25 produced in native format. The

0146

1 BRIAN J. WARD

2 document ID number is 101328316 and it

3 is a three-page document.

4 (Ward Exhibit 5 for

5 identification, ID number 101328316.)

6 Q. I'm not going to go into

7 detail about the lengthy email on the

8 second page. I just -- if you could

9 look at it to the extent that you need

10 to to familiarize yourself with the

11 discussion that was going on

12 surrounding the email.

13 A. I saw this document

14 yesterday.

15 Q. And you had an opportunity

16 to review it?

17 A. Yes.

18 Q. Do you recall this exchange?

19 A. I recall the exchange, yes.

20 Q. What is your recollection of

21 what were the circumstances surrounding

22 this correspondence?

23 A. The -- the MD of SNEPCO had

24 had a reserves audit done on the

25 offshore deep fields and they had

0147

1 BRIAN J. WARD

2 recommended a de-booking. Kisito
3 Okpere who's the MD wrote to me and
4 basically stated that he was going to
5 de-book a certain number of reserves as
6 a result of the audit. I said hold --
7 hold on a minute, we need to look at
8 the wider spectrum of events around
9 this before we start de-booking simply
10 because there was no doubt in our minds
11 that the oil was there. It seemed
12 inefficient, incorrect to de-book and
13 then re-book afterwards. So I wanted
14 to be sure before we agreed to it that
15 there was no reasonable alternative to
16 de-booking.

17 Q. What ultimately happened?

18 A. We de-booked.

19 Q. Do you know when that was?

20 A. No.

21 Q. Was it in 2002?

22 A. I don't recall which year it
23 was in.

24 Q. Okay. If you look at the
25 email you wrote, the second line says

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1 BRIAN J. WARD

2 "The de-booking of reserves must be
3 endorsed by myself and ExCom before any
4 action is taken." Was there a formal
5 process that needed to be completed for
6 there to be a de-booking of reserves?

7 A. It wasn't so much a formal
8 process. It was the fact that other
9 areas within the organization, within
10 the Shell organization were involved in
11 booking and de-booking reserves. We
12 couldn't do it unilaterally.

13 Q. When you mean other areas?

14 A. Technical review people, our
15 finance people would have wanted to be
16 involved in de-booking of reserves and

17 so on.

18 Q. Were those same people
19 involved every time there was a booking
20 of reserves?

21 A. No.

22 Q. Why is that?

23 A. Booking of reserves was a
24 normal, every day process coming out of
25 operating companies as they went

0149

1 BRIAN J. WARD

2 through their plan.

3 MR. CLARK: Are you speaking
4 about expectation reserves now?

5 THE WITNESS: Expectation
6 reserves.

7 MS. MARSHALL: I'd appreciate
8 if you want to ask him questions that you
9 do that at a different time.

10 MR. CLARK: It's just the
11 record is really unclear between
12 expectation and proved today.

13 A. When I'm talking about
14 reserves I'm talking about expectation
15 reserves.

16 Q. Well, we've been talking
17 about reserves, we've been talking
18 about proved reserves.

19 A. Okay.

20 Q. And we've been talking about
21 expectation reserves. So I don't think
22 actually it's fair to say that every
23 time you've said reserves you've meant
24 expectation reserves. I don't think we
25 need to debate that right now.

0150

1 BRIAN J. WARD

2 MR. CLARK: You're right,
3 because that's what he just said.

4 Q. When reserves are, proved
5 reserves are booked does that -- did
6 that need to be endorsed by yourself
7 and ExCom?

8 A. No.

9 Q. When proved reserves were
10 de-booked, did you believe that's
11 something that should have been
12 endorsed by yourself and ExCom --

13 A. I did, yes.

14 Q. -- before it being done?

15 A. I did, yes. If it was a
16 significant amount, yes.

17 Q. When the -- with respect to
18 reserves and the terms technical or
19 commercial maturity, does that describe
20 -- are those terms that are used with
21 respect to proved reserves?

22 A. They are used with respect
23 to the booking of proved reserves.

24 Q. So in this exchange on the
25 bottom of the first page where it says

0151

1 BRIAN J. WARD

2 "He did not feel that Bonga SW was
3 technically or commercially mature
4 enough for a booking on 1/1/2003," is
5 that referring to a booking of proved
6 reserves, if you know?

7 MR. CLARK: Objection.

8 Q. Looking at the bottom of the
9 first page of the document.

10 A. In our books we carry proven
11 and expectation reserves, and the
12 proven reserves require more stringent
13 and formalized.

14 Q. Such as technical and
15 commercial maturity?

16 A. I think that the -- they
17 certainly would include technical and
18 commercial maturity, yes.

19 Q. At the bottom of this page
20 it says "Apparently, SEC frowns at the
21 practice of linking remuneration
22 through scorecard targets to proven
23 reserves because it tends to encourage
24 inflation of reserves, or asset value,

25 without strict compliance to the SEC

0152

1 BRIAN J. WARD

2 guidelines. I believe this is an
3 action for SIEP to implement
4 group-wide." Do you ever recall any
5 conversations regarding this particular
6 issue?

7 MR. CLARK: So the record is
8 clear, I think we're talking about a
9 differently formatted document. That
10 sentence which you've read into the
11 record appears on the second page of
12 this email.

13 MS. MARSHALL: Oh, okay, I
14 have a different copy. I'll get the
15 same copy.

16 MR. CLARK: I just don't
17 want the witness to be confused.

18 MS. MARSHALL: Thanks.

19 MR. CLARK: I apologize, but
20 maybe you can restate the question.

21 Q. Okay. At the top of the
22 second page, the first -- there's an
23 asterisk?

24 A. Yes.

25 Q. It says "Apparently, SEC

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1 BRIAN J. WARD

2 frowns at the practice of linking
3 remuneration through scorecard targets
4 to proven reserves because it tends to
5 encourage inflation of reserves, or
6 asset value, without strict compliance
7 to the SEC guidelines. I believe this
8 is an action for SIEP to implement
9 group-wide." Do you recall any
10 conversations regarding this particular
11 issue?

12 A. Not until -- I do recall
13 conversations, but not until late
14 2003/early 2004.

15 Q. Do you recall having a view

16 on this prior to late 2003 or 2004?

17 A. I had a view on including
18 reserves in our scorecard, expectation
19 of reserves in our scorecard prior to
20 the SEC implication or the -- or the
21 reference that's made in this
22 particular paragraph.

23 Q. And what was your view?

24 A. My view was that it was a
25 very important parameter to have on the
0154

1 BRIAN J. WARD

2 scorecard of any operating company.

3 Q. Did you think that -- do you
4 think that it ever encouraged inflation
5 of reserves in your experience?

6 MR. CLARK: Objection;
7 vagueness.

8 A. I personally don't believe
9 that it would encourage inflation of
10 reserves because to generate your
11 increased resource base you need to
12 meet your plan, and meeting your plan
13 is what it's all about in terms of
14 performance. If you can tick off that
15 you've met your reserves expectation
16 generation targets it also means that
17 you've met your plan.

18 Q. What do you recall about the
19 conversations that were had on this
20 subject in the end of 2003/2004?

21 MR. CLARK: Objection;
22 vagueness.

23 A. The conversations were
24 around whether or not we internally
25 feel that reserves is a good
0155

1 BRIAN J. WARD

2 performance indicator to have on the
3 scorecards. It would be better given
4 the circumstances that we remove it
5 from the scorecards for a period of
6 time.

7 Q. Do you think that there
8 would be a difference between the
9 effect of expectation reserves on a
10 scorecard and proved reserves on a
11 scorecard?

12 A. Expectation reserves are the
13 lifeblood of your future growth in the
14 company. Proved reserves are something
15 which are bagged. When you talk about
16 expectation reserves target you're
17 talking about generating resources for
18 future plans and future investment. So
19 the two are very different.

20 Q. Do you think that proved
21 reserves should be included on
22 scorecards?

23 A. No, I don't think they
24 should.

25 Q. I'm going to show you a
0156

1 BRIAN J. WARD

2 document which we'll mark as Exhibit
3 number 6 for identification. It bears
4 Bates numbers V 00300854 through 56.

5 (Ward Exhibit 6 for
6 identification, Bates stamped V
7 00300854 through 56.)

8 Q. I'm not going to ask you
9 anything about the people on the path
10 forward, section 3 or section 4 or
11 section 5. So if you want to just look
12 at one, two and six.

13 A. Yes, I've read it.

14 Q. Do you recall the ExCom
15 meeting that these -- that this
16 document's describing?

17 A. I don't recall the meeting
18 itself. I recall the contents.

19 Q. How regularly did ExCom meet
20 in 2002 and 2003, if you can recall?

21 A. Once -- once a month and we
22 sometimes would have a telephone
23 meeting.

24 Q. And did you -- was it
25 mandatory to attend every meeting?

0157

1 BRIAN J. WARD

2 A. Yes. Unless impossible.

3 Q. You recall the contents of
4 what was discussed in the meeting? I'm
5 confused by your answer. You don't
6 recall the meeting itself, you recall
7 the contents. Does that mean you
8 recall the issues?

9 A. Yes.

10 Q. Okay. ROACE, is that return
11 on average capital employed?

12 A. Yes.

13 Q. What do you recall about the
14 -- what was being discussed with
15 respect to the EP business plan for
16 2002?

17 A. The EP business plan was not
18 acceptable to the CMD as it stood. It
19 didn't meet the targets that they had
20 set. We were asked to devise ways of
21 figuring out how we could adopt the
22 plan to meet the targets.

23 Q. What were the targets that
24 the business plan didn't meet?

25 A. The business could be

0158

1 BRIAN J. WARD

2 characterized by return on capital,
3 reserves replacement ratio, unit costs
4 and production levels, and these quite
5 often conflicted. And the discussion
6 was, for example, how would you meet
7 specific return on capital and at the
8 same time increase your production
9 without the investment.

10 So that was the type of
11 conflict situation that we were in and
12 that we discussed on a regular basis.

13 Q. Were there particular
14 targets that the CMD were not happy

15 with? For example, was there an issue
16 with respect to the reserve replacement
17 ratio that was in the business plan
18 that was proposed by ExCom?

19 A. Yes, there was, and the CMD
20 weren't happy with the result.

21 Q. What was presented by ExCom
22 with respect to the reserve replacement
23 ratio?

24 A. As mentioned several times,
25 this was discussed on a frequent basis.

0159

1 BRIAN J. WARD

2 Reserves replacement ratios into the
3 future of between 50 and 70 percent
4 depending on which plan we adopted were
5 frequent -- frequent -- were common.

6 And these did not stack up against the
7 competition in any way, shape or form.

8 Q. And what reserve replacement
9 ratio was the CMD looking for, if you
10 know?

11 A. I can't answer the question
12 with respect to the CMD.

13 Q. Can you answer with respect
14 to Walter van de Vijver?

15 A. With respect to the ExCom?
16 Yes.

17 Q. Yes.

18 A. We were looking for a plan
19 that would demonstrate an increasing
20 reserves replacement ratio over the
21 coming years.

22 Q. Was there a specific amount
23 by which ExCom was looking at the
24 reserve replacement ratio to increase
25 by?

0160

1 BRIAN J. WARD

2 A. The train of events was the
3 other way around. What were our
4 options to generate more reserves,
5 therefore, what could be the steps that

6 we could put into our plan.

7 Q. Was there any indication
8 from Phil Watts as to what reserve
9 replace -- reserve replacement ratio
10 would be acceptable?

11 MS. LATIMER: Object to the
12 form.

13 A. The reserve replacement
14 ratio for any company target would be
15 slightly over a hundred percent to
16 allow for growth. Much more than that
17 would mean you're investing without
18 getting the return.

19 Q. Do you recall whether or not
20 ExCom thought that that was a realistic
21 expectation --

22 MR. CLARK: Objection.

23 Q. -- in 2002, a hundred
24 percent reserve replacement ratio?

25 A. We were very clear that to

0161

1 BRIAN J. WARD

2 achieve a hundred percent plus reserve
3 replacement ratio in 2002 was
4 impossible. Other than acquisition and
5 divestment type strategic approaches.

6 Q. Where it says in that second
7 paragraph under business plan, the
8 second sentence, "He then reviewed
9 production growth, reserves replacement
10 and unit operating cost - all of which
11 are challenged, and showed the ExCom
12 the performance figures required to
13 close the gap between the plan and
14 promised performance" --

15 A. Where are we looking at?

16 MR. CLARK: I think the
17 witness and I are in a different place.
18 You're in the second paragraph on the
19 first page; is that correct?

20 MS. MARSHALL: Yes, maybe I
21 misspoke.

22 Q. I'm looking at the second

23 sentence of the second paragraph of the
24 first page.

25 A. Okay.

0162

1 BRIAN J. WARD

2 Q. Do you know what performance
3 figures this is referring to?

4 A. It's referring to the
5 performance indicators described by the
6 four key indicators which we've
7 discussed several times.

8 Q. What, if any, action was
9 taken as a result of this conversation
10 regarding the business plan being
11 rejected by CMD?

12 A. The action was for us to
13 review our own plans and ensure that we
14 couldn't contribute further to the
15 overall EP plan than we had done. And
16 this was a common theme in these
17 discussions.

18 Q. What do you mean by to
19 ensure that you couldn't contribute
20 further to the overall EP plan?

21 A. What I mean by that is were
22 our individual regional plans tuned to
23 the group plan in the best way
24 possible.

25 Q. In the next page at the top

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1 BRIAN J. WARD

2 it says "EP - The road forward." It
3 says "Walter introduced the challenge
4 of the road forward for EP. He
5 described (i) setting the challenge to
6 take the risks necessary to 'get out of
7 the box.'" And get out of the box is
8 in quotation marks. What does the
9 phrase get out of the box mean to you?

10 A. It means that the four
11 parameters, reserves replacement ratio,
12 production growth, unit costs and
13 return on capital presented us with a

14 constrained environment. And since
15 there were four parameters we called it
16 a box. Since those parameters were
17 conflicting in almost every respect to
18 achieve one would mean degradation of
19 the other.

20 Q. So in order to get
21 production to grow you'd have to spend
22 more money?

23 A. And my ROACE would go down.

24 Q. And your what?

25 A. Return on capital would go

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1 BRIAN J. WARD

2 down.

3 Q. And the only way to increase
4 the reserve replacement ratio would be
5 to increase production?

6 A. Increase --

7 Q. Costs and production?

8 A. And produce -- exploration,
9 increase exploration appraisal and so
10 on to increase our expectation and
11 reserves and then that would increase
12 our proved reserves.

13 Q. Okay. He then wrote, so
14 that was one, "setting the challenge to
15 take the risks necessary to 'get out of
16 the box,'" two, "making connection
17 between our past and our future." What
18 does that mean to you?

19 A. I don't recall what that
20 means.

21 Q. Okay. Three, "Integrating
22 and managing the changes," and four,
23 "Getting a sense of our own alignment.
24 He cautioned the way of thinking that
25 got us here is still alive today." Do

0165

1 BRIAN J. WARD

2 you know what way of thinking he was
3 referring to?

4 A. He was referring to more of

5 the same, do the same things as you did
6 before, you get the same results, and
7 we needed to think differently, we
8 needed to be better aligned as a global
9 business.

10 Q. In the end of the document
11 under paragraph 6, "A winning story."
12 It says that you presented an initial
13 outline for the communications package.
14 Do you recall what this communications
15 package was for?

16 A. It was to be presented at a
17 meeting of the ExCom and senior
18 managers from the operating companies
19 in a meeting, EP group leadership
20 meeting. Sorry, that wasn't what it
21 was called. It had another term.
22 Anyway, it was the heads of all the EP
23 operating companies and the EP ExCom.

24 Q. And what was the purpose of
25 that meeting?

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1 BRIAN J. WARD

2 A. The purpose of that meeting
3 was to align all the senior people
4 running our operating companies with
5 our plan and what we required of them,
6 made that clear.

7 Q. It says here in the second
8 sort of dash, "While it was felt that
9 numbers helped to make the story feel
10 real and provide a tangible target, the
11 use forward-looking goals to establish
12 a 'stake in the ground' would be
13 preferred to expressing it in terms of
14 gaps." Can you explain what this --

15 A. This -- this was simply a
16 matter of presentation. Rather than
17 saying we fall short by X, we would say
18 we wanted to achieve X by such and such
19 a date. So we would set a goal.

20 Q. Okay. And do you know any
21 reason why investor relations needed to

22 review this information? In the first
23 line it says "The ExCom noted the need
24 to have the information reviewed
25 carefully by IR prior to any broad
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1 BRIAN J. WARD

2 distribution."

3 A. This was purely -- this was
4 internal business with confidential
5 information in there.

6 Q. So you don't have any
7 understanding as to why that would have
8 to occur?

9 A. It was -- we were just by
10 this time fairly sensitive to the
11 amount of effort that had gone into
12 working with investors and invest --
13 analysts with our investor relations
14 people and we wanted to make sure we
15 weren't saying anything which would
16 contradict that effort.

17 Q. I'm going to show you a
18 document which we'll mark as Exhibit
19 number 7. The first page is blank, but
20 it's LON 01830079 through 81.

21 (Ward Exhibit 7 for
22 identification, Bates stamped LON
23 01830079 through 81.)

24 Q. I just ask that you review
25 the email exchange that begins at the
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2 bottom of the first page.

3 A. Yes, I've read it.

4 Q. Do you recognize this
5 exchange?

6 A. I recognize the content.

7 Q. Okay. And you've had the
8 opportunity to view the -- review the
9 document?

10 A. I've just read it.

11 Q. Okay. If you look to the
12 bottom of the page there's an email

13 from Bob Turner to yourself dated
14 October 29th, 2002. The subject is
15 "Effect of min. standard on production
16 forecasting." Who is Bob Turner?

17 A. He was a member of the
18 technical and operational excellence
19 team.

20 Q. What was his role there?

21 A. He was the production
22 technology specialist.

23 Q. What were his
24 responsibilities in that role?

25 A. His role was, as with all

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1 BRIAN J. WARD

2 the other disciplines, to come up with
3 a set of minimum standards of operation
4 for his discipline.

5 Q. What was the production
6 forecasting minimum standard?

7 A. It was a process which would
8 allow the operating companies to follow
9 a sequence of events to arrive at a
10 production forecast.

11 Q. Why was this a subject of
12 discussion at this time?

13 A. Because the issue around
14 production forecasting is that by its
15 very nature it's a skewed distribution,
16 and you are -- there's much bigger
17 chance in general that you will fall
18 short than that you will exceed.

19 Now if you add up the means
20 of those distributions you end up at a
21 forecast which you're more likely not
22 to achieve than to achieve, and we
23 needed to -- and that was borne out by
24 the struggle to achieve a planned
25 forecast of production.

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1 BRIAN J. WARD

2 What we were doing in T&OE
3 was saying, look, how -- how do we go

4 about this so that we get at least a 50
5 percent chance of being right.

6 Q. Was the idea of a minimum
7 standard on production forecasting a
8 new initiative or had there always been
9 a minimum standard on production
10 forecasting?

11 A. No, this was a new
12 initiative.

13 Q. And who initiated this
14 initiative?

15 A. I did.

16 Q. Did you have any discussions
17 with ExCom about the need for this
18 initiative?

19 A. Not that I recall.

20 Q. Do you recall ever talking
21 to Mr. van de Vijver about the need for
22 this initiative?

23 A. I recall talking to Mr. van
24 de Vijver about T&OE and where we would
25 be concentrating our efforts.

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1 BRIAN J. WARD

2 Q. And was this one of the
3 areas that you --

4 A. And this was one of the
5 areas.

6 Q. I'm sorry, you need to let
7 me finish my questions so it's easier
8 for her.

9 A. I'm sorry.

10 Q. So this was one of the areas
11 that you would be concentrating on?

12 A. Yes.

13 Q. And did he express any view
14 on that?

15 A. Not that I recall.

16 Q. What did you understand Mr.
17 Turner to be warning you about in this
18 email?

19 A. He was basically reinforcing
20 what we already knew, that the way we

21 were adding up a myriad of separate
22 production forecasts from various areas
23 and adding them together to produce an
24 overall group production forecast was
25 subject to being over-optimistic.

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1 BRIAN J. WARD

2 Q. When he wrote here, "I
3 believe the production forecasting
4 minimum standard could be a 9.0 on the
5 Richter scale, it's becoming clear that
6 there's a lot of hope (equal management
7 adjustment and our current forecast
8 round the group, no one seems to own
9 the 3 percent growth target at the
10 production end of the business. Upside
11 potential is over-estimated and
12 downside risk underplayed," what did
13 you understand that to mean?

14 A. Could you be more explicit
15 on which part you want me to comments
16 on?

17 Q. Sure. When he says -- when
18 he wrote there's a lot of, parentheses
19 hope -- quotation mark hope,
20 parentheses equal management adjustment
21 and our current forecast round the
22 group, what did you understand that to
23 mean?

24 A. I understood that to mean a
25 lack of realism by the people compiling

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1 BRIAN J. WARD

2 the forecasts around the risks. If I
3 were to give you an example --

4 Q. That would be great.

5 A. In the Gulf of Mexico if we
6 have a bad hurricane season, the
7 platforms are shut down and we lose a
8 huge amount of production. It's an
9 extremely difficult decision to make as
10 head of an operating company or as a
11 technical specialist to take a large

12 discount for the fact that you might
13 have a hurricane coming and it might
14 close your particular platform down.

15 On the other hand, on a
16 statistical basis around the world if
17 everybody ignores something that
18 statistically is going to happen you
19 end up with an over-optimistic
20 forecast.

21 Q. And do you know what he
22 meant by "no one seems to own the 3
23 percent growth target at the production
24 end of the business"?

25 A. Yes. The 3 percent growth
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2 target came from top down, was an ExCom
3 target, and of course at the end of the
4 day the people who have to produce that
5 3 percent are the people down running
6 the fields and operating the fields and
7 managing the fields. And they would
8 look at you and say well, hey, I'm flat
9 out, where am I going to get an extra 3
10 percent from. So that's the issue
11 around lack of ownership. And so what
12 we would have to do would be to
13 convince them we have to work and see
14 how we are going to do it.

15 Q. Was a minimum standard of
16 production forecasting put into effect?

17 A. I don't know the answer to
18 that question. I would assume so by
19 now.

20 Q. Had it been put into effect
21 before you left the company?

22 A. A large number of these
23 minimum standards had been issued to
24 the operating companies. They were --
25 including this one. They were being
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2 worked. Feedback from the operating

3 companies was happening. It was the
4 process of finalizing and implementing
5 these final standards.

6 Q. Okay. Changing the subject,
7 do you recall in January of 2003 an
8 article that was written in I believe
9 an internal magazine called -- I don't
10 know what it was called, but that
11 discussed drawing on credit? Does that
12 mean anything to you?

13 A. I didn't hear you, I'm
14 sorry.

15 Q. A drawing on credit, an
16 article that appeared in I believe it
17 was an internal magazine?

18 A. No, I don't recall it.

19 Q. I'm going to show you two
20 documents to refresh your recollection.
21 We'll mark them at the same time, I'll
22 give them to you together because I
23 believe they should be read together.

24 MS. MARSHALL: The first one
25 I'll mark as Exhibit 8 which is RJW

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2 00190173, and the second one is V
3 0020922. And I think you should read
4 them in the order that we're marking
5 them.

6 (Ward Exhibit 8 for
7 identification, Bates stamped RJW
8 00190173.)

9 (Ward Exhibit 9 for
10 identification, Bates stamped V
11 0020922.)

12 Q. Have you had an opportunity
13 to read these documents?

14 A. I have, yes.

15 Q. Who is Jim Chapman?

16 A. He was my petroleum
17 engineering focal point on T&OE on the
18 technical and agreement -- sorry,
19 technical and operations excellence

20 team.

21 Q. Okay. And what was his --
22 what were his responsibilities in that
23 position?

24 A. Basically his home
25 discipline was production geology and

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1 BRIAN J. WARD

2 he was looking at the standards of
3 reserves, production geology, reservoir
4 engineering, that sort of stuff, and he
5 -- his job was to develop minimum
6 standards for these areas to support
7 the overall objective of having the
8 same minimum technical standards around
9 the group.

10 Q. And in looking at the
11 standards of reserves, was the
12 standards of proved reserves included
13 in that?

14 A. No.

15 Q. And when you say the
16 standard of reserves, can you explain
17 what you mean?

18 A. The issue around what --
19 what Jim was looking at was much more
20 focused on the technology and technical
21 process related to field development
22 and field development in terms of how
23 you arrive at booking reserves
24 expectations and so on.

25 So he was not, if you like,

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2 at that stage at any rate in the audit
3 role of proved reserves booking
4 compliance.

5 Q. Right. But would he be
6 looking at field development plans and
7 their related technical aspects to see
8 if they could support commercial
9 development for a particular field, for
10 example?

11 MR. CLARK: Objection; asked

12 and answered.

13 A. Would you like to rephrase,
14 rephrase the question.

15 Q. Sure. When you say that he
16 was more focused on the technology and
17 technical process related to field
18 development, the field development in
19 terms of how you arrive at booking
20 reserve expectations, can you explain
21 what you mean by that?

22 MR. CLARK: Objection;
23 misstates prior testimony.

24 MS. MARSHALL: I was reading
25 his testimony.

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1 BRIAN J. WARD

2 MR. CLARK: I don't think
3 you read it right then.

4 Q. You can answer the question.

5 A. Okay. When asked to
6 separate the issue of managing the
7 business as a petroleum engineer from
8 this issue of arbitrarily setting
9 rules, compliance rules for booking
10 proved reserves, the two have very
11 little to do with each other. Jim's
12 job was clearly to manage the standards
13 by which development planning of fields
14 and the process thereby was defined.
15 In other words, how do you go through
16 this process, how do you re- -- arrive
17 at demonstrating your expectation of
18 reserves, how do you then move forward
19 into a development plan and so on.
20 That's where his focus was.

21 His other focus was also to
22 do with reserves, but again, much more
23 on the practical side, were there other
24 methodologies, other reservoir
25 mechanisms that we could use such as

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water injection around the world which would enhance our expectation of reserves on a broad-brush basis because we felt that we were missing something in terms of application of best technology and best techniques, or may be missing something, and we wanted to review that.

That's Jim's role in T&OE.

Q. Do you recall the article that precipitated this email exchange that's in Exhibit 8 and 9?

A. In fact, I don't recall it.

Q. Do you recall any part of this exchange occurring?

A. A vague recollection in the back of my mind. It certainly didn't make an impact on me.

Q. In the email from Walter van de Vijver to Mr. Chapman that you're copied on, he says, "Knowing the sensitivity on our reserve base and formal reporting guidelines, how could you have contributed to such an article

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in a magazine that also gets distributed externally?" Do you know what sensitivity he was referring to?

A. No.

Q. Do you know what magazine this is referring to?

A. No.

Q. In your email to Mr. van de Vijver that begins on the first page of Exhibit 9, the bottom of the first page, it says, "Jim being the head honcho for petroleum engineering recited the issues around the box, the key one being from his viewpoint reserve replacement." Is this -- do you know if this box that you're mentioning here is the same box we were

19 talking about before?

20 A. Yes.

21 Q. Okay. You wrote "It was
22 absolutely clear he had no idea as to
23 the sensitivities around disclosure,
24 and to be fair to him, the latter has
25 been building up significantly over the
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2 last year." Do you have any
3 recollection of what sensitivity you
4 were referring to that was building up
5 significantly over that last year?

6 A. Yes. It would have been the
7 parameters surrounding the box, same
8 four parameters.

9 Q. Do you recall if the
10 disclosure had anything to do with the
11 SEC disclosure?

12 A. I have no idea.

13 Q. Okay. Then if you look at
14 John Darley's email to you, he said "In
15 my view there are two issues. One is
16 on disclosure of share-price sensitive
17 data." Do you know what he meant by
18 share-price sensitive data?

19 A. Any publication that went
20 out into the outside world discussing
21 key parameters looked at and -- by
22 analysts and by which we were judged as
23 a company was seen as share-price
24 sensitive data.

25 Q. And your response to him --
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2 well, he -- he wrote in the email "For
3 your info, I have given instructions
4 not to continue distribution of the
5 magazine and to recover and destroy all
6 distributed copies." You wrote in your
7 response to Mr. Darley, "You said it
8 John, technical content. I take your
9 point, however. So much for openness,

10 by the way." Do you know what you
11 meant by that statement, "so much for
12 openness by the way"?

13 A. The group had been moving
14 over time from being a very autocratic
15 direct line communication in a rigid
16 hierarchy to much more of an open
17 discussion with much more fuzzy lines
18 in terms of who you would talk to and
19 who you could talk to and so on. And
20 we recognized the hierarchical
21 structure as being old-fashioned and
22 contributing to the difficulties that
23 we were finding ourselves in at the
24 time this was written.

25 We promoted openness, but of
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2 course the -- the issue around openness
3 is how open is open.

4 Q. And this --

5 A. That's what I was referring
6 to.

7 Q. Meaning perhaps this was too
8 open?

9 A. Yes. I mean it needed more
10 -- it should have had more thought
11 before it went out, clearly.

12 Q. Do you recall having any
13 conversations with Mr. Chapman about
14 not the issue of the magazine article
15 and that he wrote it and it was
16 published, but the content?

17 A. No.

18 Q. Do you recall having any
19 conversations with Mr. Chapman about
20 the issue with respect to reserves that
21 he was working on?

22 A. Yes.

23 Q. And when do you recall
24 having those conversations?

25 A. I can't specify a time, but

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1 BRIAN J. WARD

2 it would have been over a period of
3 time I'd have had those conversations.

4 Q. What do you recall about
5 those conversations?

6 A. We were looking to see,
7 looking at our resource base on a
8 global basis, whether there were
9 technologies that we could use, used by
10 other -- by competitors or by other
11 people successfully that would be
12 applicable to our fields on a -- on a
13 global scale to make a large difference
14 to our recoverable reserves.

15 Q. Do you recall ever being
16 privy to conversations about what --
17 whether there were certain types of
18 field developments or technical
19 procedures that the SEC did not support
20 for reserves to be considered proved?

21 A. Could you rephrase the
22 question.

23 Q. Sure. Did you ever recall
24 whether there were any conversations
25 with respect to certain technologies

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1 BRIAN J. WARD

2 used for the recovery and whether or
3 not the SEC had any particular views
4 with respect to any of those?

5 A. Yes, I do.

6 Q. Where do you recall those
7 conversations taking place?

8 A. I don't recall where they
9 took place.

10 Q. Were they at the ExCom
11 level?

12 A. I don't recall where they
13 took place, but such subjects would be
14 discussed at the ExCom.

15 Q. What do you recall about
16 those conversations?

17 A. The conversations were

18 around the fact that even though we
19 considered our reserves booking
20 processes to be conservative the SEC
21 rules were far more constrictive in the
22 sense that they would not allow 3D
23 seismic results which we would use on a
24 normal basis to be included, that they
25 would not allow pressure data to
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2 estimate the column of oil or gas that
3 you'd found to be used. This was the
4 issue of lowest known hydrocarbons.
5 These sorts of things which
6 were absolutely basic within, enshrined
7 within our way of doing our technical
8 business were not allowed by the SEC
9 rulings.

10 Q. And was there a certain
11 specific time period that you became
12 aware of the SEC's views on those?

13 A. No. The -- the issue of
14 noncompliance with SEC for myself
15 personally was a two-year process.

16 Q. And those two years being?

17 A. 2002/2003.

18 Q. Were you surprised to learn
19 the SEC's views on the 3D seismic
20 results, for example?

21 A. I was very surprised because
22 3D seismic has been around a very long
23 time and has proven its worth without
24 any -- any discussion whatsoever in
25 terms of how useful it was.

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1 BRIAN J. WARD

2 Q. When you first learned that
3 there were issues of noncompliance with
4 the SEC, what was your reaction?

5 A. My reaction was I needed to
6 see what the noncompliances were, were
7 they significant, what did we need to
8 do about them.

9 Q. Do you recall any specific
10 actions that you took in that regard?

11 A. The actions that I would
12 take -- I was taking were mainly
13 focused on SPDC. They were based on
14 and generated by the lack of
15 professional management of our
16 reservoirs in SPDC, not by the SEC.

17 The noncompliance issue with
18 the SEC was an issue that had to be
19 included in the overall bigger scheme
20 of things within the country.

21 Q. Was the reserve maturation
22 study in SPDC part of that process?

23 A. Yes, it was.

24 Q. And what was the genesis of
25 that study?

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1 BRIAN J. WARD

2 A. When we started off with the
3 critical issues process one of the
4 critical issues was reserves. The more
5 we dug into the reserves issue the more
6 problems we uncovered, and the more
7 resources we decided to put on to the
8 issue, and this was one of them.

9 Q. And what was the purpose of
10 the reserve maturation study?

11 A. Within the overall context I
12 can't answer that question.

13 Q. Was it something that Walter
14 van de Vijver wanted to be done?

15 A. I don't know. Certainly he
16 would have supported it.

17 Q. Why do you say that?

18 A. Because we had clear
19 indications that we needed to do more
20 work on our reserves and field
21 development planning in Nigeria, in
22 SPDC than was going on at the time, was
23 able to be put on it through internal
24 resources.

25 Q. And that was clear from when

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1 BRIAN J. WARD

2 you started as the CEO of Africa?

3 A. Yes, correct.

4 MR. CLARK: Caroline, if you
5 want to stop at a convenient point for
6 a quick break.

7 MS. MARSHALL: Now is fine.

8 MR. CLARK: Okay, let's just
9 take five.

10 THE VIDEO OPERATOR: Going
11 off the record, the time is 16:00.

12 (A recess was taken.)

13 THE VIDEO OPERATOR: Going
14 back on the record, the time is 16:25.

15 MR. CLARK: Off the record.

16 (Discussion off the record.)

17 Q. Mr. Ward, you have in front
18 of you a document that was previously
19 marked at a prior deposition as Exhibit
20 number 3 for identification at Mr.
21 Kluesner's deposition. I don't expect
22 that this is something that you've ever
23 seen. I actually thought it might be
24 helpful to show you to reference your
25 recollection on the sequence of events

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2 with respect to the reserve maturation
3 study.

4 A. Yes.

5 Q. Okay. So if you want to
6 take a moment to look through it. I
7 don't believe that every phase has a
8 reference that you may know about,
9 every entry, but if you want to look
10 through it --

11 A. Right.

12 Q. -- that would be helpful.

13 A. Okay.

14 Q. Have you had an opportunity
15 to review this document?

16 A. Yes.

17 Q. Do you recall getting in
18 touch with David Kluesner regarding the
19 reserve maturation study in July of
20 2003?

21 A. Yes.

22 Q. What do you recall about
23 your initial conversation or
24 conversations with Mr. Ward? I'm
25 sorry, with Mr. Kluesner, thank you.

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2 A. I reached the conclusion by
3 this time that the studies that were
4 being performed by the people in
5 Nigeria were never going to be
6 concluded in a satisfactory fashion.
7 That was based on the fact that every
8 time we had a summarization of the
9 status of the work going on we got
10 different figures and different
11 conclusions. I needed to try to bring
12 it to the head in Nigeria so that we
13 had a document we could refer to
14 because up until now it had proved --
15 it had escaped any -- my best efforts
16 at least to come to a landing on where
17 we were with respect to our overall
18 reserves and project maturity position.

19 Dave Kluesner was a highly
20 respected senior reservoir engineer in
21 the group and I asked if he would help
22 us out, go over to Nigeria, and
23 specifically I wanted him to oversee
24 the framing of the work that needed to
25 be done. The complexity of the problem

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2 that we were faced with there, the
3 technical complexity and the commercial
4 complexity, if you like, with respect
5 to meeting LNG demands required that we
6 had to have a defined framework so that
7 we always referred to the same

framework, otherwise, we were never going to come to a conclusion.

And I asked Dave Kluesner if he would help me out with this, get into the internals of what John Hoppe was doing, and feel comfortable with a framework that we could work with from then on.

Q. And when you say the internals of what John Hoppe was doing, what are you referring to?

A. I'm referring to what you would normally refer to as a terms of reference for a study, and quite clearly, from my experience as the year went on, the changes in figures and the changes in conclusions and approach was such that that framework was clearly

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not there, wasn't embedded, and I guess the task was just too big.

Q. And do you recall what Mr. Kluesner was asked to look at?

A. Well, I was more interested in him overseeing the structure of the work that needed to be done and how the framework would be set up, so that we had a consistent review point.

When Dave got there, it was quite clear that they -- they needed him to help in the more basic stuff, the more -- and from where I stood, I would say that he got too quickly into the detail with John Hoppe rather than attacking this framework, although he did do that as well.

Q. And the detail was the detail of the maturity --

A. Maturity of the projects and therefore the maturity of the reserves bookings.

Q. So he took it on a field-by-

25 field basis?

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2 A. Yes. Well, a project-by-
3 project basis.

4 Q. Project-by-project basis?

5 A. Yes.

6 Q. To try to determine the
7 maturity of the project?

8 A. Yes, yes.

9 Q. And also to try to match
10 that up with the reserves that had been
11 booked?

12 A. That's correct.

13 Q. And was it anticipated that
14 there was going to be a gap?

15 A. Yes.

16 Q. And did he in fact find
17 there to be a gap?

18 A. He did, yes.

19 Q. And was it initially
20 expected that part of his project would
21 be aimed at determining how best to
22 fill that gap with -- by developing
23 or --

24 A. No.

25 Q. -- or maturing certain

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2 projects?

3 A. That was not his prime aim.
4 His prime aim was to develop a
5 methodology or a framework by which we
6 could, A, establish the true position
7 of our reserves if there was such a
8 thing, and B, provide a way ahead in
9 terms of structure for the study.

10 Q. And were Mark Corner and
11 Phil Davis involved in the project?

12 A. Yes.

13 Q. And what was their
14 involvement?

15 A. Phil was my normal contact

16 route to what was going on, and Mark
17 Corner was the technical director in
18 SPDC and therefore had accountability
19 over the -- overseeing this particular
20 issue.

21 Q. If you look on the second
22 page the entry on November 12th, 2003,
23 there's a reference to a meeting with
24 Mark Corner and John Hoppe with Phil
25 Davis and Tom van Leenen on the phone
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2 in The Hague. Who's Tom van Leenen?

3 A. Tom van Leenen was the
4 opposite number to Phil Davis on the
5 engineering side.

6 Q. Okay.

7 A. So not the petroleum
8 engineering side which was Phil Davis,
9 but on the engineering side, in EPG.

10 Q. It says "Finished the
11 teleconference with Brian Ward on the
12 phone where he stressed how important
13 it was to finish study and to make sure
14 we had it right. Questions about what
15 to do, de-booking or other as a result
16 of the immaturity and shortfall were
17 briefly discussed." Do you recall that
18 conversation?

19 A. I don't recall that
20 conversation.

21 Q. Do you recall going to
22 Nigeria for a meeting on November 18th,
23 or was that a meeting that you attended
24 by telephone?

25 A. I don't recall this meeting.
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2 Q. Do you recall traveling to
3 Nigeria in the fall of 2003?

4 A. I traveled to Nigeria on a
5 fairly regular basis.

6 Q. So it's conceivable you were

7 at the meeting, you just have no
8 particular recollection?

9 A. I don't have a recollection
10 of this meeting.

11 Q. Do you recall learning about
12 the magnitude of the shortfall?

13 A. I learned -- at this
14 meeting?

15 Q. At any point in time.

16 A. Yes, I learned about it from
17 Phil Davis.

18 Q. Do you recall when that was?

19 A. Certainly towards the end of
20 2003.

21 Q. Could it have been before
22 this meeting, or you just have no
23 recollection?

24 A. I don't recall the
25 chronology.

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2 Q. Do you recall what your
3 reaction was when you learned the
4 magnitude of the shortfall?

5 A. My answer to your question
6 is my reaction to the magnitude of the
7 shortfall after I was aware of the
8 consequences of the deviations from the
9 SEC rulings, which was late in the
10 year, was to de-book them in total.
11 There were all sorts of categories.
12 What the people had done, what the
13 technical staff had done was divided
14 these reserves up into reserves that
15 were too far into the distance to
16 include reserves which needed more
17 maturity work done on them, reserves
18 which this, reserves which that. And
19 it was clear to me at a certain point
20 in time towards the end of 2003 that
21 there was simply no way this process of
22 studying throughout 2000 and 2003 had
23 any hope of coming to a conclusion at

24 that time.

25 I was by that time aware,

0200

1 BRIAN J. WARD

2 certainly post-mid-November 2003 I was
3 aware of the very considerable
4 consequences foreseen by our board and
5 my reaction was to de-book them
6 regardless and then start work on
7 fixing the problem with the reserves
8 de-booked.

9 Q. Was there any disagreement
10 within the company about whether or not
11 your view that all of the reserves
12 should -- all of those reserves in the
13 study should be de-booked was correct?

14 MR. CLARK: Objection. Do
15 you have a time frame?

16 Q. When you came to that
17 conclusion were there other people who
18 were expressing a different view?

19 A. Not to my knowledge.

20 Q. Around the same time?

21 A. Not to my knowledge. The --
22 at that time we'd passed this rubicon
23 the awareness of the consequences of
24 deviations from the SEC rulings had
25 become so clear that I think

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1 BRIAN J. WARD

2 everybody's reaction was, look, we
3 don't have an alternative, we have no
4 time left, we can't -- we can't fix
5 this, de-book. However, that's --
6 sorry, that was my opinion, that's the
7 feeling I got from my colleagues.

8 Q. And you didn't hear a
9 different opinion expressed --

10 A. I didn't hear a different
11 opinion.

12 Q. -- at that time?

13 Do you recall a time where
14 you did hear a different opinion

15 expressed?

16 A. The process beyond about
17 mid-November 2003 excluded most of the
18 ExCom. In fact, it probably was a
19 little earlier than that, where Walter
20 formed a small group that worked
21 absolutely full time on this issue. It
22 included the group reserves auditors,
23 but also the group auditor, these sorts
24 of people. And I was not involved in
25 any discussions from that point in time

0202

1 BRIAN J. WARD

2 until the disclosure on the 9th of
3 January 2004.

4 Q. Because you were not
5 included on that team or because you
6 were?

7 A. Yes. Because they had to
8 have a small team. The -- my
9 contribution to that team was the input
10 from Dave Kluesner's work and where I
11 derived that in a final -- with my
12 people, but they took that and then
13 write we now have to decide how to work
14 through with this.

15 Q. Do you ever recall prior to
16 November of 2003 any debate within
17 ExCom about the need to de-book
18 reserves as a result of the SEC guide
19 -- the SEC rule?

20 A. Yes, I do.

21 Q. When -- do you recall
22 debates occurring on more than one
23 occasion?

24 A. Yes.

25 Q. When do you first recall

0203

1 BRIAN J. WARD

2 that debate beginning?

3 A. I can't name a date.

4 Q. What year was it?

5 A. Certainly we would be

6 discussing it at the beginning of 2003.

7 Q. Do you recall whether you
8 ever took a position in 2003 about
9 whether or not any reserves needed to
10 be de-booked because of the SEC --
11 compliance or lack of compliance with
12 the SEC rule?

13 A. The issue was very simply
14 that if we were unable to demonstrate
15 compliance or offsets for booked
16 reserves, we would have to de-book.
17 However, the complexity of the issue
18 that I've referred to before meant that
19 the document that was to arrive on my
20 desk finalizing and concluding the
21 position that we were in never actually
22 arrived.

23 Q. So is it your view that the
24 de-booking needed to happen because no
25 answer could be found?

0204

1 BRIAN J. WARD

2 A. We were unable to arrive at
3 what I would have considered to be a
4 defensible document not to de-book.

5 Q. Was there a time frame --
6 let me ask it this way. Going back to
7 2000 -- the beginning of 2003, you
8 testified that ExCom would certainly be
9 discussing de-booking at the beginning
10 of 2003. At that time was there a time
11 frame discussed by which there needed
12 to be the ability to defend the
13 bookings or else they would have to be
14 de-booked?

15 A. Yes, by the end of the year.

16 Q. And who -- where did the
17 deadline of the end of the year come
18 from?

19 A. That would be the deadline
20 for our disclosure on reserves, so we
21 would have had to have booked those
22 reserves by that time, or de-booked

23 them by that time to include them in
24 the documentation in the spring.

25 Q. Was there ever any

0205

1 BRIAN J. WARD

2 discussion about whether there were
3 requirements for disclosures of
4 previously booked proved reserves that
5 had been determined to be no longer
6 meeting the criteria of proved reserves
7 prior to the end of the year?

8 MR. CLARK: Objection to the
9 form.

10 A. I recall discussions in
11 ExCom about certain reserves being at
12 risk of de-booking.

13 Q. Do you recall which reserves
14 those were?

15 A. Nigeria was one, Kashagan,
16 Gorgon. I can't remember others. I
17 think there were smaller ones around
18 the patch.

19 Q. What do you recall about
20 those discussions about those reserves
21 that were at risk of de-booking?

22 MR. CLARK: Objection to
23 form.

24 A. I recall discussions around
25 what flexibility we had with respect to

0206

1 BRIAN J. WARD

2 each of these bookings at risk to do
3 something about them, and I wasn't
4 involved in the other fields, but in
5 terms of SPDC, I relayed the fact that
6 we were working the issue as hard as we
7 could and hoped to come up with an
8 answer before year end.

9 Q. In the beginning of 2003 did
10 you suspect that there was going to be
11 the need to de-book at least some
12 reserves for SPDC at the end of 2003?

13 MR. CLARK: Objection to

14 form.

15 A. It was certainly on the
16 cards.

17 Q. Did you have any specific
18 communications with Judith Boynton
19 while you were the CEO of Africa?

20 A. Could you tell me what you
21 mean by specific communications?

22 Q. Do you recall any particular
23 communications that you had with her
24 while you were the CEO of Africa?

25 A. Other than greetings, no.

0207

1 BRIAN J. WARD

2 Q. After you became the CEO of
3 Africa, do you recall ever having any
4 specific communications with Mr. Watts?

5 A. I don't recall any
6 discussions with Mr. Watts about a
7 particular subject more than perhaps
8 presenting in the boardroom. My -- my
9 line was to Walter.

10 Q. Did you have any interaction
11 with any representatives from KPMG?

12 A. No.

13 Q. Did you have any
14 interactions with anyone from PwC?
15 Thank you.

16 A. No.

17 MR. FERRARA: We know it's
18 late.

19 MS. MARSHALL: Yes, that's a
20 good sign I'm getting tired.

21 Q. Do you have any knowledge of
22 the SEPTAR organization within Shell?

23 A. Other than to say it was the
24 technical body based in Rijswijk, which
25 had been there for many, many years.

0208

1 BRIAN J. WARD

2 Q. Did SEPTAR have anything to
3 do with TOE?

4 A. There was clearly an overlap

5 in terms of technical disciplines if
6 people are doing research on production
7 geology or developing methodologies on
8 production geology, and Jim Chapman is
9 setting minimum standards for
10 production geology in T&OE, then quite
11 clearly there is a connection between
12 the two.

13 Q. Would the minimum standards
14 that he would have been working on had
15 been -- would they -- they would have
16 been applied globally?

17 A. Yes.

18 Q. Do you ever have any
19 occasion during your employment at
20 Shell to travel to the United States?

21 A. Yes.

22 Q. For what purpose?

23 A. In the eighties I ran a
24 contract in Alabama, a computing
25 contract and I would visit there. And

0209

1 BRIAN J. WARD

2 in the last decade I've been over to
3 Houston for what they call group
4 leadership meetings, where the
5 leadership of the Shell Group meets
6 once a year.

7 Q. What type of computing
8 contract was this?

9 A. I was developing an
10 interactive graphics system for
11 evaluating petrophysics.

12 Q. Who would attend the group
13 leadership meetings in the United
14 States?

15 A. All senior staff, top senior
16 staff from operating companies around
17 the world except those on the -- on the
18 not accepted list from the US.

19 Q. Meaning the United States
20 wouldn't let them in?

21 A. No, it just we didn't -- we

22 didn't include them.

23 Q. For political reasons or
24 some other reason?

25 A. You have a list of countries
0210

1 BRIAN J. WARD
2 in the world with which you do not do
3 business.

4 Q. With which -- meaning --

5 A. US.

6 Q. You meaning the US?

7 A. Yes.

8 Q. Why, if you know, were the
9 meetings held in the US?

10 A. Sorry?

11 Q. Do you know why the meetings
12 were held in the US?

13 A. One was held in the US and
14 alternately in The Hague.

15 Q. Were there specific issues
16 that were addressed at each of those
17 meetings?

18 A. The -- the objective of
19 those meetings was to raise awareness
20 of a very large group of senior
21 management from the group in terms of
22 the objectives of the group, the
23 rationale behind the objectives, to
24 explain what the future looked like, to
25 explain any major reorganization or
0211

1 BRIAN J. WARD
2 change in strategic thinking from the
3 CMD and so on.

4 Q. Do you recall the last
5 meeting you attended in the United
6 States? Well, the last of those types
7 of meetings that you attended in the
8 United States?

9 A. Well they were pretty much
10 similar.

11 MR. CLARK: Were you asking
12 him the date of it?

13 Q. Yes, I mean was it in 2003,
14 2004, 2002?

15 A. There would have been one in
16 2003, yes.

17 Q. In the United States?

18 A. Yes -- well, yeah.

19 Q. Was it every other year in
20 Rijswijk?

21 A. Every other year it was in
22 Rijswijk or in -- or in Houston.

23 Q. And starting with what
24 position did you hold did you begin to
25 attend those yearly meetings?

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1 BRIAN J. WARD

2 A. When I was -- when I was
3 production director in Aberdeen, early
4 nineties.

5 Q. So starting with the early
6 nineties throughout your tenure you
7 attended those meetings?

8 A. Yes.

9 Q. And who led those meetings?

10 A. The group managing director.

11 Q. How long did the meetings
12 last?

13 A. Used to be a day with your
14 own function, E&P, and then a day with
15 everybody together, E&P, chemicals,
16 downstream.

17 Q. Would production forecasts
18 and reserve replacement ratios be among
19 the things that would be discussed?

20 A. Presented rather than
21 discussed.

22 Q. Meaning there was too many
23 people to have any kind of discussion?

24 A. Yes, correct.

25 Q. So there would be

0213

1 BRIAN J. WARD

2 presentations on those issues?

3 A. Yes.

4 Q. Do you ever recall
5 presentations on the reserve guidelines?

6 A. No.

7 Q. Did you ever attend any
8 ExCom meetings in the United States?

9 A. No. Other than the -- the
10 EP meeting which preceded the group
11 leadership meeting which I just
12 referred to. So that was a -- what we
13 called an extended ExCom which was the
14 ExCom plus the MDs from the various EP
15 operating companies.

16 Q. So you would have one of
17 those meetings each time?

18 A. Each time, yes.

19 Q. Okay. And who would set the
20 agenda for those meetings?

21 A. The CMD.

22 Q. Do you recall whether at any
23 of those meetings there were any
24 presentations by the centers for
25 excellence? Would they be involved in
0214

1 BRIAN J. WARD

2 those meetings?

3 A. Yes.

4 Q. Would SDS be involved in
5 those meetings? Were they involved in
6 any of those meetings that you can
7 recall?

8 A. Not that I can recall, no.
9 Oh, correction, let me -- sorry, can I
10 come back on that. I recall that SDS
11 had a floor show in the hall where they
12 demonstrated their expertise and
13 results in the Gulf of Mexico.

14 Q. Okay. I'm going to show you
15 one document and then we're not going
16 to be here too much longer.

17 MS. MARSHALL: We'll mark as
18 Exhibit number 10 for identification.
19 It's Bates V 00160446 through 450.

20 (Ward Exhibit 10 for

21 identification, Bates stamped V

22 00160446 through 450.)

23 Q. I'm not going to ask you any
24 details about the attachment. I'm
25 going to ask you more about the email,
0215

1 BRIAN J. WARD

2 so I just want to -- you know, to the
3 extent that you recognize the document
4 I wouldn't suggest you have to read it
5 in a lot of detail.

6 A. Okay.

7 Q. Do you recognize this email
8 exchange and the attachment which is
9 titled "Script for Walter on proved
10 reserves position"?

11 A. I recognize the email content.
12 I don't -- I don't specifically recall
13 reading the document attached, but I do
14 recognize quite a lot that's in there.

15 Q. Do you recall the
16 circumstances surrounding this
17 exchange?

18 A. We were at the stage by now
19 where Walter had formed a group of
20 people to manage the reserves issue. I
21 was on the outside and I was asked to
22 comment on a document, and that's what
23 I've done here.

24 Q. Did the -- if you look at
25 your email, you say "The amount of
0216

1 BRIAN J. WARD

2 reserves to be firmed up in Nigeria
3 during 2004, estimated 42 man years
4 effort, is substantial. The 42 man
5 years attacks 580 mmbbls reserves."
6 Are those figures that you got from the
7 reserve maturation study, if you can
8 recall?

9 A. Those figures came out of
10 the final discussions with SPDC after
11 the reserves maturation study, yes.

12 Q. You then wrote, "Of that 580
13 it is already estimated that 140 mmbbls
14 will be so far in the future it won't
15 qualify. They are then proposing a
16 discount factor of 80 percent to the
17 remainder," there's a calculation which
18 gets you to 342. Do you know who you
19 meant by the they? Who was proposing
20 this?

21 A. I don't know who proposed
22 that.

23 Q. Then you wrote, "Thus we can
24 sort of put our hand on our heart
25 technically and add back 352 mmbbls."

0217

1 BRIAN J. WARD

2 What was your view on adding that back?

3 A. Well, what I'm saying is
4 that there is uncertainty surrounding
5 the 440. If we allow for that
6 uncertainty by discounting it by an
7 arbitrary figure, that would either
8 completely or go part way to allowing
9 for that uncertainty.

10 Q. But was it your view that --

11 A. I was offering an option
12 here to Frank. My view was that we
13 should de-book.

14 Q. And not do the discount?

15 A. And not even start to play
16 around with these figures anymore.

17 Q. Did you have any
18 conversations yourself with Mr. van de
19 Vijver about what you thought should be
20 done with respect to the de-booking of
21 reserves in SPDC at the end of 2003?

22 A. No. This was -- this was my
23 input to the team at the end of the
24 day.

25 Q. So did you ever speak with

0218

1 BRIAN J. WARD

2 him about it?

3 A. Whilst he was working in
4 that team I didn't discuss it with him
5 as far as I can recall.

6 Q. Did you ever discuss it with
7 him prior to him working in that team?

8 A. We discussed the issue of
9 de-booking reserves during 2003 on a
10 fairly regular basis in Nigeria and he
11 would ask for updates as to where we
12 were with the studies, but the problem
13 with the studies, as I've already
14 outlined, was they were never ending
15 and they never really managed to get a
16 handle on the totality of the problem.

17 Q. Did he ever express any
18 frustration to you about the fact that
19 the studies were never ending and
20 weren't providing a clear way forward?

21 A. He -- he was well aware of
22 my level of frustration and therefore,
23 he, I guess he didn't see much point in
24 expressing his level of frustration on
25 top of mine.

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1 BRIAN J. WARD

2 Q. Did you ever have any
3 discussions with him after the de-booking
4 was done regarding the circumstances
5 surrounding the de-booking?

6 A. No.

7 MS. MARSHALL: We can take a
8 little break and I'll check to see if I
9 have anything more.

10 THE VIDEO OPERATOR: Going
11 off the record, the time is 17:09.

12 (A recess was taken.)

13 THE VIDEO OPERATOR: Back on
14 the record. Here marks the beginning
15 of tape number 4, volume 1, in the
16 video deposition of Brian Ward. The
17 time is 17:19.

18 Q. Mr. Ward, earlier, just
19 recently actually you were --

20 THE VIDEO OPERATOR: Sorry,

21 your microphone.

22 Q. A few minutes ago we were
23 talking about the beginning of 2003 and
24 conversations within ExCom regarding
25 the possibility of de-booking reserves.

0220

1 BRIAN J. WARD

2 Do you know whether or not there was
3 any awareness at the CMD level that
4 such conversations were occurring at
5 ExCom?

6 A. I'm not aware.

7 MS. MARSHALL: I have no
8 further questions.

9 MR. CLARK: I just have a
10 couple.

11 EXAMINATION BY MR. CLARK:

12 Q. First of all, Mr. Ward, a
13 few minutes ago you used the phrase "on
14 the cards." Can you tell us what on
15 the cards means or what you meant by
16 it?

17 A. On the cards in my
18 terminology means it's likely to
19 happen.

20 Q. Quite some time ago you
21 answered some questions about reserves
22 and proved reserves on scorecards. Do
23 you recall that?

24 A. I do.

25 Q. Do you recall stating that

0221

1 BRIAN J. WARD

2 you did not think proved reserves
3 should be on scorecards?

4 A. I do.

5 Q. Can you tell us why you do
6 not think proved reserves should be on
7 scorecards?

8 A. Scorecards were all about
9 achieving your objective proved
10 reserves on something which are done

11 and dusted, they don't fit with a
12 scorecard.

13 Q. Does your answer that proved
14 reserves should not be on scorecards
15 have anything to do with SEC rules?

16 A. None whatsoever.

17 Q. Finally, earlier this
18 afternoon you said that the issue of
19 noncompliance with the SEC for yourself
20 personally was a two-year process. Can
21 you tell us what you meant by that?

22 A. I meant that it was a
23 learning process for myself. My
24 priorities were, at the beginning of
25 those two years were far more related

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1 BRIAN J. WARD
2 to getting SPDC up to a standard of
3 operation which was acceptable and
4 comments regarding the SEC, divergence
5 from SEC rulings were heard, but I
6 heard them in the context of we were a
7 conservative company anyway with our
8 rulings, so it was I guess I was
9 feeling it was more of an
10 administrative issue rather than
11 anything else.

12 As the -- as the time went
13 on -- there was one other -- there was
14 one other happening which I think is
15 relevant to mention. At a certain
16 stage Frank Coopman, sometime I guess
17 second half of 2003, but I'm not sure,
18 made a statement that they were in
19 letter discussion with the SEC which
20 sort of confirmed to me even at that
21 stage that we still were discussing
22 these issues with the SEC and there was
23 no -- that this was something that was
24 being handled overall. So it -- I was
25 very late to the game, but I guess that

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1 BRIAN J. WARD

2 happened to a lot of people as well.
3 So the learning curve was a long
4 process for me and it wasn't until very
5 late in 2003 that I recognized the
6 magnitude of the seriousness of the
7 issues we were facing with respect to
8 these divergences in booking criteria.

9 MR. CLARK: I have no
10 further questions. Anybody else?

11 EXAMINATION BY MS. MARSHALL:

12 Q. I just wanted to ask you a
13 couple of questions about one of your
14 last statements. You said that proved
15 reserves were done and dusted?

16 A. Mm-hmm.

17 Q. What do you mean by that?

18 A. Proved reserves are
19 established and in the ground so when
20 you set out a plan of action what
21 you're going after is increasing your
22 resource base, that's what it's all
23 about, in order for you to enable you
24 as a company to grow in the following
25 years. If you don't have that

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1 BRIAN J. WARD

2 increased resource base you can't grow.

3 So you could mathematically,
4 I suppose, convert expectation of
5 reserves into proved reserves and then
6 use that on a scorecard, but it really
7 didn't make any sense whatsoever.

8 Q. Wasn't there a time in Oman,
9 for example, that expectation reserves
10 and proved reserves were equated to a
11 certain extent?

12 A. I don't recall specifics for
13 Oman. There is a -- a ratio of proven
14 to expectation reserves which doesn't
15 necessarily mean anything, but it is a
16 guideline used in the industry and if
17 it's -- if it deviates from the sort of
18 norm it might be a signal that you

19 should look at the two figures.

20 Q. If proved reserves are done
21 and dusted, why was it that Shell had
22 to recategorize so many reserves from
23 proved reserves?

24 MR. CLARK: Objection;
25 argumentative.

0225

1 BRIAN J. WARD

2 Q. You can answer the question.

3 MR. CLARK: If you can.

4 A. Well, I guess that's what
5 this whole deposition is about. We had
6 to recategorize it because we needed
7 to, when we adjusted one parameter in
8 the total equation, you had to adjust
9 other parameters as well. So if you
10 took reserves from your proved reserves
11 category it had to go into expectation
12 or scope for recovery as we called it.
13 So there was a knock-on domino effect
14 in changing all your reserves figures.

15 The total resource volume
16 you -- the total resource volumes are
17 the same. If you change one of them,
18 the others change.

19 Q. Wasn't there an effort
20 within the different operating units of
21 Shell to move reserves from the
22 estimated category to the proved
23 category?

24 MR. CLARK: Objection to
25 form.

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1 BRIAN J. WARD

2 A. Not that I'm aware of.

3 Q. Is there money to be made on
4 estimated reserves?

5 A. When you say estimated
6 reserves, can you clarify.

7 Q. When you're -- you were
8 talking about -- or expectation
9 reserves.

10 A. Okay.

11 Q. Is there money to be made on
12 expectation reserves?

13 A. Expectation reserves is the
14 basis of your business.

15 Q. And how is -- how are
16 expectation reserves turned into
17 revenue coming in?

18 A. Expectation reserves are not
19 turned into revenue. Production is
20 turned into revenue.

21 Q. And when reserves are being
22 produced are they then considered
23 proved reserves?

24 A. De facto, yes, if they're
25 being produced.

0227

1 BRIAN J. WARD

2 Q. And so in order to be
3 produced -- in order to get revenue
4 from reserves, they must then in fact
5 be proved, correct?

6 A. Yes.

7 MR. CLARK: Objection to the
8 illogic of the question.

9 MS. MARSHALL: Well, he
10 answered yes. I have no more
11 questions.

12 MR. CLARK: Did you answer
13 yes?

14 THE WITNESS: I didn't think
15 I answered yes.

16 MS. MARSHALL: I did and so
17 did the reporter.

18 MR. CLARK: Then I'll follow
19 up.

20 EXAMINATION BY MR. CLARK:

21 Q. Did you mean to answer yes
22 to that question?

23 A. Well, if you want me to
24 answer that I need to hear the question
25 again.

0228

1 BRIAN J. WARD

2 MS. MARSHALL: "In order to
3 be produced, in order to get revenues
4 from reserves, then they must in fact
5 be proved, correct?"

6 THE WITNESS: In order to
7 get revenue from reserves you have to
8 produce the reserves and if you produce
9 a reserve de facto they are proved
10 reserves.

11 MS. MARSHALL: I have no
12 more questions.

13 MR. CLARK: I do.

14 EXAMINATION BY MR. CLARK:

15 Q. Are you aware of any rule,
16 regulation or guideline that requires
17 reserves to be proved before they're
18 produced?

19 A. No.

20 Q. Is your answer based on the
21 fact that after a reserve is produced,
22 whether expectation or proved, it will
23 be considered proved?

24 A. Absolutely.

25 Q. Are you aware of any

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1 BRIAN J. WARD

2 circumstances in which operating
3 companies such as PDO Oman neglected to
4 convert over or subtract their
5 production from proved reserves?

6 A. No.

7 MR. CLARK: No further
8 questions.

9 THE VIDEO OPERATOR: Here
10 marks the end of videotape number 4,
11 volume 1 in the video deposition of
12 Brian Ward. Going off the record, the
13 time is 17:31.

14 (Time noted: 5:31 p.m.)
15
16
17

18 BRIAN J. WARD

19
20 Subscribed and sworn to before me
21 this ____ day of _____, 2007.

22
23 _____

24

25

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1
2 STATE OF NEW YORK) Pg__of__Pgs

3 ss:

4 COUNTY OF NEW YORK)

5 I wish to make the following changes,
6 for the following reasons:

7 PAGE LINE

8 ____ CHANGE: _____

9 REASON: _____

10 ____ CHANGE: _____

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13 REASON: _____

14 ____ CHANGE: _____

15 REASON: _____

16 ____ CHANGE: _____

17 REASON: _____

18 ____ CHANGE: _____

19 REASON: _____

20 ____ CHANGE: _____

21 REASON: _____

22 ____ CHANGE: _____

23 REASON: _____

24 ____ CHANGE: _____

25 REASON: _____

0231

1
2 C E R T I F I C A T E

3 STATE OF NEW YORK)

: ss.

4 COUNTY OF NEW YORK)

5 I, GAIL F. SCHORR, a Certified
6 Shorthand Reporter, Certified Realtime
7 Reporter and Notary Public within and for

8 the State of New York, do hereby certify:

9 That BRIAN J. WARD, the witness
10 whose deposition is hereinbefore set forth,
11 was duly sworn by me and that such
12 deposition is a true record of the testimony
13 given by the witness.

14 I further certify that I am not
15 related to any of the parties to this action
16 by blood or marriage, and that I am in no
17 way interested in the outcome of this
18 matter.

19 IN WITNESS WHEREOF, I have
20 hereunto set my hand this ____ day of
21 _____, 2007.

22
23
24
25 _____
GAIL F. SCHORR, C.S.R., C.R.R.

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1 E X H I B I T S

2

3 DESCRIPTION PAGE LINE
4 (Ward Exhibit 1 for 66 22
5 identification, Bates
6 stamped LON 00010726 through
7 728.)

8 (Ward Exhibit 2 for 117 11
9 identification, Bates
10 stamped V 00120472 through
11 485.)

12 (Ward Exhibit 3 for 129 16
13 identification, Bates
14 stamped LON 01830060 through
15 64.)

16 (Ward Exhibit 4 for 136 8
17 identification, Bates
18 stamped V 00230705 through
19 721.)

20 (Ward Exhibit 5 for 146 4
21 identification, ID number
22 101328316.)

0233

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2 identification, Bates
3 stamped V 00300854 through
4 56.)
5 (Ward Exhibit 7 for 167 21
6 identification, Bates
7 stamped LON 01830079 through
8 81.)
9 (Ward Exhibit 8 for 176 6
10 identification, Bates
11 stamped RJW 00190173.)
12 (Ward Exhibit 9 for 176 9
13 identification, Bates
14 stamped V 0020922.)
15 (Ward Exhibit 10 for 214 20
16 identification, Bates
17 stamped V 00160446 through
18 450.)

Busaidi, Hilal H.M.

From: Kennett, Chris / OQP
 To: KERR, B. / EPT-AM, SIEP
 Cc: O'Neill, Niel N. / OBP; Busaidi, Hilal H.M. / CLM3
 Subject: RE: Reserves and Financial Reporting
 Date: 14 September 1998 11:47

Brad,
 I am working on a reply to your email and will get back to you shortly.
 I have not been able to attend to this earlier due to the
 leaves/absences on course of various key staff

Chris

From: KERR, B. / EPT-AM, SIEP
 To: KENNETT, CHRIS / OQP
 Subject: RE: Reserves and Financial Reporting
 Date: 01 September 1998 15:49

Chris,

I would like to clarify the basis for the 252 mbo increase in proved developed reserves discussed in your note. The note said this was the difference between the method previously agreed with an external auditor and the "SPE proven developed definition". The SPE article is fairly broad and discusses a number of methods, although it does clearly differentiate between them.

1. Probabilistic - use at least the P90 value
2. Scenario deterministic - a deterministic estimate with a "high degree of confidence"
3. "Proved area" deterministic - a deterministic estimate within the "proved area"

What method is your new estimate based on?
 Does the use of the expectation estimate for proved developed reserves also impact proved reserves? You will see from the discussion below that this is often the case for mature fields.

The revised guidelines are essentially done (they await auditor's endorsement which is planned for later this week). A draft is attached. The guidelines allow the use of probabilistic and scenario deterministic methods for all cases. The "proved area" deterministic method is only allowed for mature fields where most of the reserves have been developed. In these cases, if you use the expectation estimate for proved developed reserves and the low estimate (P85) for proved reserves, the resulting value for proved undeveloped reserves (calculated by difference) is an unrealistically low (or negative) value. Therefore, in these cases, you should either use the "proved area" deterministic method, or not calculate proved undeveloped reserves by difference (ie. calculate the proved undeveloped reserves (low estimate) and proved developed reserves (expectation estimate) separately and then add them together to derive total proved reserves).

This may be hitting you cold since PDO has not had to do these calculations in the past. Please give me a call if you have any questions.

Page 1

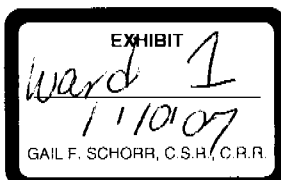
we used developed exp.

we do not want to touch the proven figures methodology

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 Treatment Requested

LON00010726



Thanks for your help.

Best regards,
Brad Kerr

<<File Attachment: SIEP98-1.DOC>>

| From: WATSON, C.H.E. / EPM, SEPI, OPENMAIL
| To: BOSTOCK, D. / EPT-AM, SIEP RIJSWIJK, OPENMAIL; KERR, B. /
| EPT-AM, SIEP, OPENMAIL
| ; ELAM, P.F. / EPB-P, SEPIV, OPENMAIL
| Cc: VAUGHAN, A.B. / EPM, SEPI, OPENMAIL
| Subject: FW: Reserves and Financial Reporting
| Date: 04 August 1998 08:14

| Gents

| herewith the PDO response: please would one of you

- | a) confirm that the response is full and satisfactory
- | b) let me know if this is 'good news from a group reporting point of view'

| many thx

| Charles

| From: Ward, Brian B.J. / MD, PDO MUSCAT, OPENMAIL
| To: WATSON, C.H.E. / EPM, SEPI, OPENMAIL; ELAM, P.F. / EPB-P,
| SEPIV, OPENMAIL
| Subject: FW: Reserves and Financial Reporting
| Date: 04 August 1998 07:01

| We have now discussed in house the impact of the changes in reserve
| reporting guidelines as proposed by the SIEP Value Creation team on
| PDO's 1/1/99 reserves reporting. The conclusions are as follows:

| 1) Proven Developed Reserves

| The proposal is to follow the SPE definitions regarding proven
| developed reserves (i.e. essentially by equating proven and expectation
| developed reserves). In the case of PDO, proven developed reserves do
| not currently feature in the ARPR, and a simple bottom line number (
| based on an algorithm agreed some years ago with the external auditor)
| is reported to the external shareholders at the end of the year. If PDO
| were to adopt the SPE proven developed definition to arrive at this
| bottom line number, this would

| * increase the reported PDO proven developed reserves from 1430 million
| bbl to 2172 million bbl, representing an increase in Shell share of 252
| million bbl.

| * this change would have no impact on PDO financial reporting (income,
| tax, depreciation etc)

| 2) Proven reserves

| PDO currently report total proven reserves to external shareholders
| based on arithmetic addition of the individual field proven reserves.
| Based on PDO's wide selection of different field types and
| configurations, it could be argued that individual field reserves are
| independent, which would support the concept of probabilistic addition
| rather than simple arithmetic addition of field proven reserves

Page 2

000731

(arithmetic addition will be maintained at a reservoir level within individual fields). This would increase the PDO total proven reserves by 1399 million bbl (Shell share of increase 476 million bbl) resulting in a proven/ expectation ratio of 86.5%. Such a change would have no impact on PDO financial reporting, and would be catered for in the ARPR by an additional table showing the comparison of arithmetic and probabilistic addition at the field level.

The following table summarises the impact of the proposed changes

Although the above changes will not impact on Government, we still need as a matter of courtesy to explain these changes in external reserves reporting to the Ministry of Oil and Gas. We also understand that SIEP are discussing the proposed changes in reserves reporting guidelines with the external auditors.

Brian Ward

<<OLE Object: Microsoft Excel 5.0 Worksheet>>

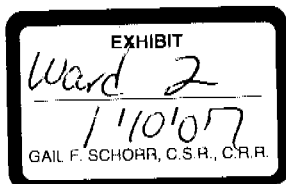
Unknown

From: Brass, Lorin L.L.
Sent: 20 February 2002 07:02
To: Gardy, D.; Cook, Linda Z.; Megat, Zaharuddin Z.; Warren, Tim T.; Sprague, Robert M.;
WARD, BRIAN B.J.; Darley, John J.; Bichsel, Matthias M.; Dubnicki, Carol C.; VanDeVijver,
Walter W.
Subject: Note For Information - Reserves - CMD - February 2002



CMD_NFI_FINAL1_ CMD note
RRR.ZIP tachment final.ZIP.
Excom,

The following was the NFI to CMD regarding our Reserves situation. I should've put in Excom preread for last Monday but forgot. At the end are some of the "action items" identified, but clearly there are more.



DB 07635

Note For Information

CMD 11th February 2002

EP Hydrocarbon Resources Update 1/2002

This note summarises the end 2001 Group resources situation, cleared by external audit, and in part reported in the Q4'01 and FY'01 press release. All numbers include the effects of A&D activities unless otherwise indicated.

Summary

The total barrel of oil equivalent proved hydrocarbon reserves replacement ratio (RRR) for 2001 was 74% (52% excluding A&D), leading to a proved RRR three year rolling average, including AOSP additions (mining reserves) in 1999 of 81%, 101% excluding A&D). The 2001 RRR is below the results quoted by our main competitors (BP 191%, XOM 110%), and highlights a portfolio that is under-performing in terms of adding reserves through exploration and maturing existing scope. Future RRR performance over the plan period relies on the delivery of 'big ticket' bookings, e.g. Kudu, Sakhalin LNG and Kashagan.

Our overall resource base contains some 20 bln boe of proved reserves (c.f BP 16 bln boe, XOM 22 bln boe), some 13 bln boe of expectation reserves (of which some 8 bln boe currently fall outside of license expiry), some 17 bln boe of discovered Scope for Recovery (SFR). Our total discovered resources base is thus ca. 50 bln boe (c.f. XOM 70 bln boe) and additionally we have some 27 bln boe of undiscovered SFR. Together with any volumes resulting from new exploration licenses and acquisitions these volumes represent a significant opportunity to increase our proved reserves replacement performance and the EP organization is being geared up to tackle each and every element.

Reserves and Resources

2001 Actual Additions (See Table 1)

The Group proved reserves base at end 2001 is 19.1 bln boe (19.7 incl. AOSP) and remains split at 50:50 oil/gas. The 2001 proved RRR of 74% amounts to a reserves addition of 1020 mln boe, which in Figure 1 is broken out by type of revision;

- 360 mln boe of Discoveries & Extensions, mainly in USA, UK and Brunei
- 350 mln boe of Revisions & Improved Recovery, mainly Netherlands, Denmark and Sakhalin offsetting negatives from Canada (50 mln boe based on field performance), New Zealand (50 mln boe based on studies on Maui field) and Oman Gisco (110 mln boe as a consequence of the renegotiation of the GISCO contract and acceleration of repayments)
- 310 mln boe of Acquisitions & Divestments, mainly Fletcher and Pinedale.

The proved oil RRR is 65%, taking the 3 year average to 102% including mining reserves and 77% without, and the proved gas RRR is 86% contributing to a 3 year

DB 07636

average of some 50%. During 2001 there were no changes to the reserves for AOSP. Including AOSP, the three year average proved boe RRR is 81% (101% excl A&D) and excluding AOSP, the equivalent numbers are 67% (86%).

The Total Resource base (the sum of expectation reserves and commercial discovered SFR) has increased by 2.7 bln boe to 49.4 bln boe (see Table 2); this includes a 1.3 bln boe addition from Venezuela Urdaneta West which falls outside of the current licence period. It should be further noted that total resources include some 1.1 bln boe from the consolidation of Sakhalin.

The Unit Finding and Development Cost (UFDC) for 2001 defined as the exploration and development cost incurred (\$6.1bln) divided by Group oil and gas additions, excl. purchases and sales, (0.73 bln boe) now stands at \$8.3/boe for the year 2001, and \$4.8/boe on a 3-year rolling average base (up from \$3.50/boe in 2000, see Figure 2). An increase in UFDC was forecast at the time of developing the Business Plan in 2000 when it was recognised that there would be a lag between stepping up capital spending and the increase in subsequent reserves bookings. Together with the lower than planned bookings in 2001 this impacts directly on our competitive position on this indicator where, up until this year, we were the leading player. The Unit Finding Cost (funding share) is \$1.0/boe yielding a 3-year average of \$0.62/boe, reflecting a continuation of an improving trend. Unit Finding Costs on a proved reserves additions basis are \$ 3.8/boe.

Comparison versus Business Plan

The EP scorecard target for 2001 was 80% (excl. A&D and strategic options), or 1120 mln boe at target production. The actual addition excl. A&D and strategic options was 710 mln boe, or 52% RRR at actual production. The main contributors to the lower than planned RRR are detailed in Figure 3.

None of the strategic options associated with reserves bookings in 2001 materialised, e.g. Saudi Gas, T2T, Salym, Bangestan, China, Libya.

Total SFR maturation to expectation reserves over 2001 was 0.92 bln boe or 2.2% of the commercial SFR.

Exposures

Securities and Exchange Commission (SEC) Alignment

Recently the SEC issued clarifications that make it apparent that the Group guidelines for booking Proved Reserves are no longer fully aligned with the SEC rules. This may expose some 1,000 mln boe of legacy reserves bookings (e.g. Gorgon, Ormen Lange, Angola and Waddenzee) where potential environmental, political or commercial 'showstoppers' exist.

End of License

In Oman PDO, Abu Dhabi and Nigeria SPDC (18% of EP's current production) no further proved reserves can be booked since it is no longer 'reasonably certain' that the proved reserves will be produced within license. The overall exposure should the OU business plans not transpire is 1,300 mln boe. Work has begun to address this important issue.

DB 07637

Appraisal

Historical Perspective

In 1999 - 2001 the proved reserves additions have not fully replaced production and the 2001 3-year rolling average RRR's no longer benefit from the recent 'bookings rich' period of 1996-98 (see Figures 4/5, reflecting performance with and without the effects of A&D and showing the impact of AOSP). Over that period, substantial proved reserves additions were realised from major discoveries (Australia, Gorgon, SNEPCo (Bonga), total 1.2bln boe), major revisions (Venezuela 0.3mln boe) and new business (Oman GISCO, 0.4bln boe). In addition, in 1998 significant bookings were made by bringing proved reserves closer to expectation in mature fields (total 1.2 bln boe) - this action brought us to industry standard from a much more conservative position.

Competitive Landscape

The Group RRR of 74% is low in comparison with competitors who all posted RRRs in excess of 100% (Figure 6). The competitors are able to draw benefit from portfolios which, following the rounds of industry rationalisation, appear to offer wider choices in key exploration and scope maturation targets.

2002 and Beyond: Outlook for RRR

The outlook for Group reserves replacement in 2002 and beyond remains challenging (see Figure 7);

- We can expect fewer additions through the base plan, because of OUs affected by 'end of license'. OUs with limited remaining exploration potential and the challenge to find ways to increase expectation reserve levels in mature fields.
- And an increased reliance on strategic options and other big-ticket bookings. Control on timing of these bookings is an issue, as they are commonly occur in frontier areas (Kashagan), face fierce competition for markets (T4/T5, Sakhalin LNG), rely on emerging technologies (Kudu, SURE), or are in areas with limited control (Saudi, Whale). The subsequent reserves booking profile may be "lumpier" than in the past and these major bookings will require additional steer to ensure delivery of new reserves within the tighter SEC framework.

Actions taken

In Q4 2001 and Q1 2002 a number of actions have been initiated to address this emerging issue;

- even greater focus is being placed on succeeding in exploration, a key challenge is to focus on the maturation of our 27 bln boe of undiscovered scope for recovery
- similarly EP is refocusing the organization to reinstate Technical and Operational Excellence across the whole of its core operations; hydrocarbon resources maturation is a key element of this drive
- EP is looking again at the opportunities to accelerate the maturation of our 17 bln boe of discovered scope for recovery and specifically with GP looking at the opportunities to monetize gas SFR

DB 07638

- Stepping up the drive to extend licenses e.g. in Abu Dhabi, Nigeria, Brunei, Oman and open up the opportunity to move the 8 bln boe expectation reserves which currently fall outside of license expiry back into our within license resource base and ultimately move to proved reserves.

Conclusion

Our reserves replacement performance over the past few years clearly illustrates the emerging problems with our resource base and is becoming a source of competitive disadvantage. Over the plan period, the challenge will be to secure sufficient volumes from major bookings to supplement additions from a base plan portfolio and ensure that existing exposures, if they transpire, are adequately offset.

However, we do have some nearly 50 bln boe of SFR and expectation reserves currently outwith license in our overall resource base which presents a significant opportunity. We are refocusing our efforts on exploration and will pursue more aggressively the transfer from SFR to reserves but this will not be sufficient to reverse the trends – success in major strategic options in MRH's or a major acquisition is necessary.

DB 07639

Table 1 : Summary of 2001 Reserves/Resources Replacement

proved

Production

RRR

Oil/NGL

Gas

Total BOE

0.81

0.57

1.38

Production

0.83

0.58

1.41

Additions

bln boe

Oil/NGL

Gas

Total BOE

0.81

0.57

1.38

Production

Oil/NGL

Gas

Total BOE

0.83

0.58

1.41

Additions

bln boe

Oil/NGL

Gas

Total BOE

0.83

0.58

1.41

Resources (bln boe)

SFR (com discovered)

Expectation (incl proved)

Total

less Urdaneta West (license)

Resources added (net)

Production

Resources added (gross)

Resources (bln boe)

SFR (com discovered)

Expectation (incl proved)

Total

less Urdaneta West (license)

Resources added (net)

Production

Resources added (gross)

Reserves (bln boe)

Balance 31.12.2000

Additions

Extensions

Revisions

A&D

Transfer to Dev

Production

Balance 31.12.2001

Developed

Balance 31.12.2000

Additions

Extensions

Revisions

A&D

Transfer to Dev

Production

Balance 31.12.2001

Reserves (bln boe)

Balance 31.12.2000

Additions

Extensions

Revisions

A&D

Transfer to Dev

Production

Balance 31.12.2001

Developed

Balance 31.12.2000

Additions

Extensions

Revisions

A&D

Transfer to Dev

Production

Balance 31.12.2001

DB 07640

Table 2: Total Resource Base as at 31.12.01

b in boe	Oil&NGL	Gas	Total
Proved Developed	4.3	4.4	8.8
Proved Undeveloped	5.7	5.2	10.9
Total Proved	10.1	9.6	19.7
Expectation minus Proved			
Total Expectation	16.9	15.8	32.7
(of which in license)	(12.7)	(12.0)	(24.7)
SFR			
Proved techniques	7.9	5.9	13.8
Unproved techniques	2.7	0.2	2.9
Total Resources	27.5	21.9	49.4
Undiscovered	15.6	11.9	27.5
Non commercial	2.4	2.6	5.0
Total Volume	45.5	36.4	81.9

Table 2 Total resource base at 1.1.2002. AOSP Mining reserves are included

DB 07641

Figure 1: Total BOE Proved Reserves 2001

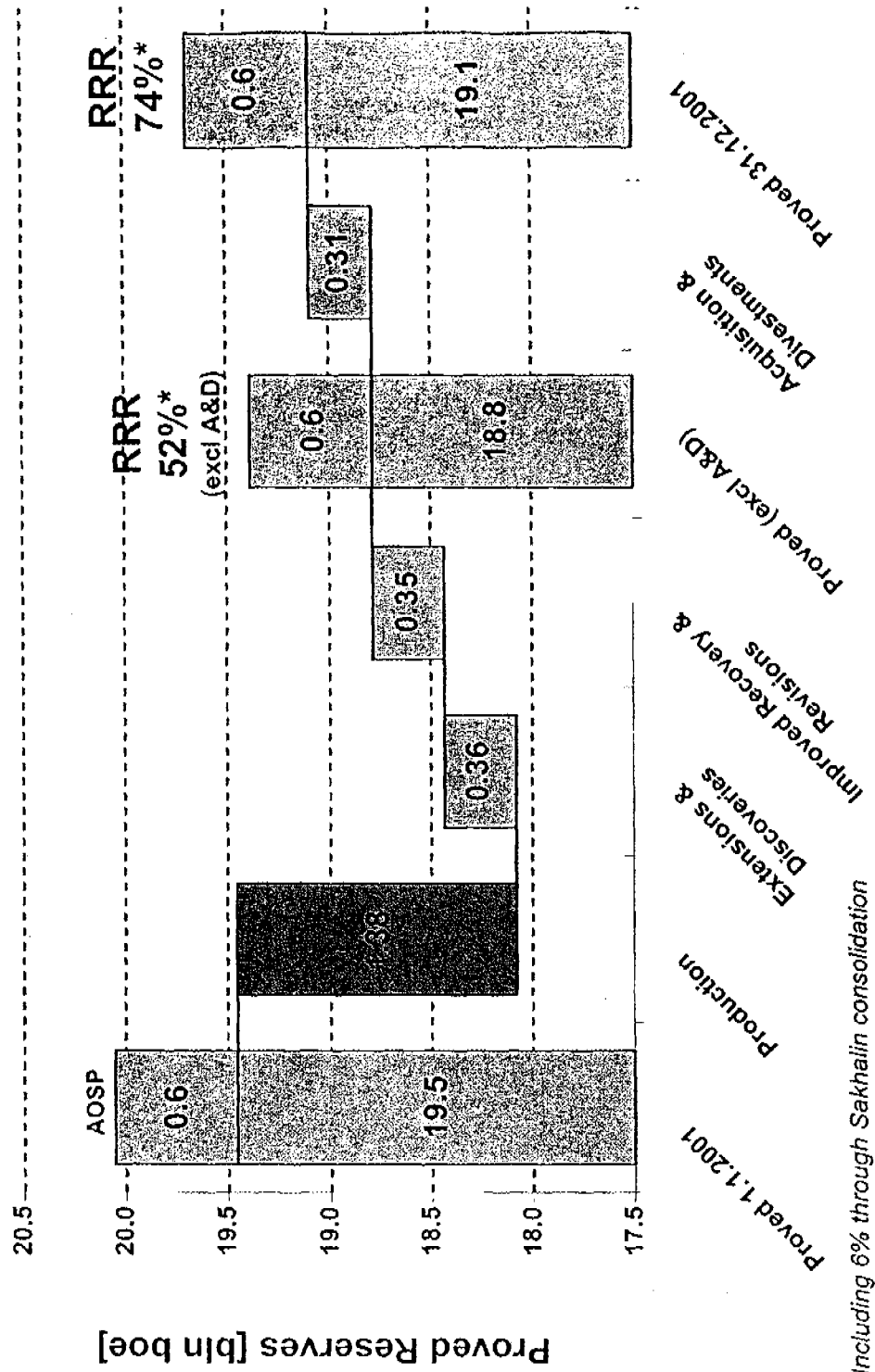
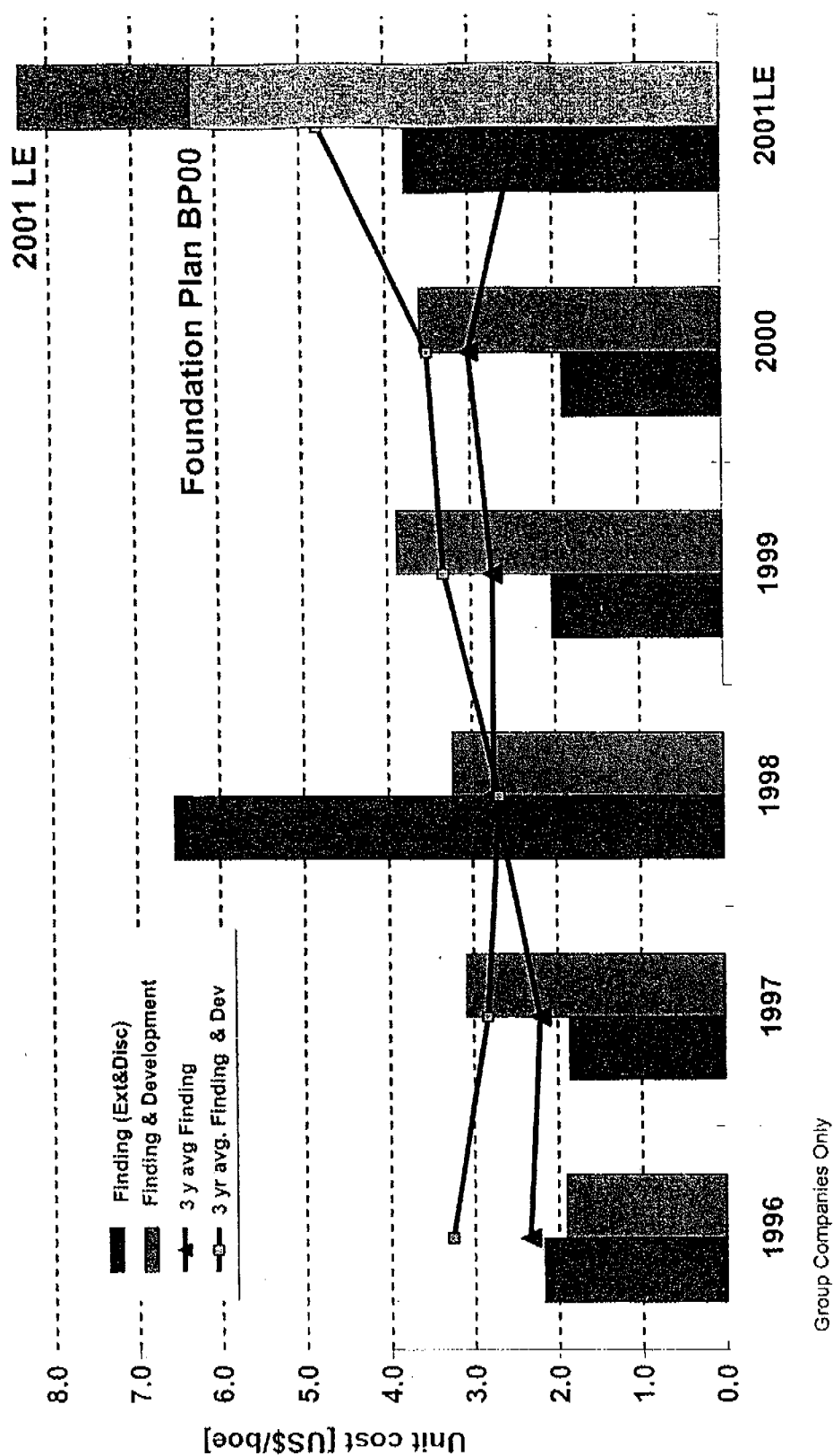
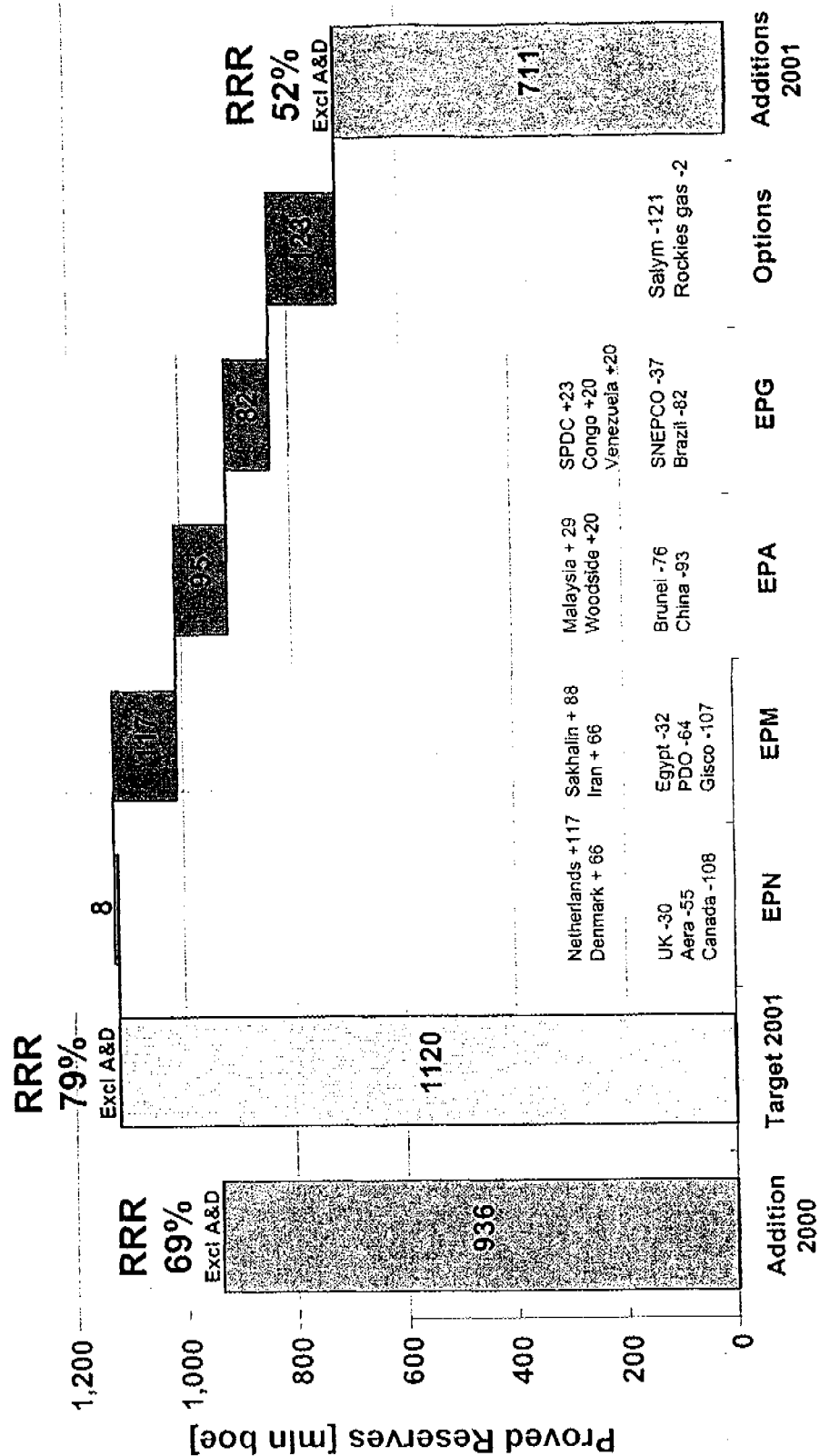


Figure 2 : Finding and Development Cost



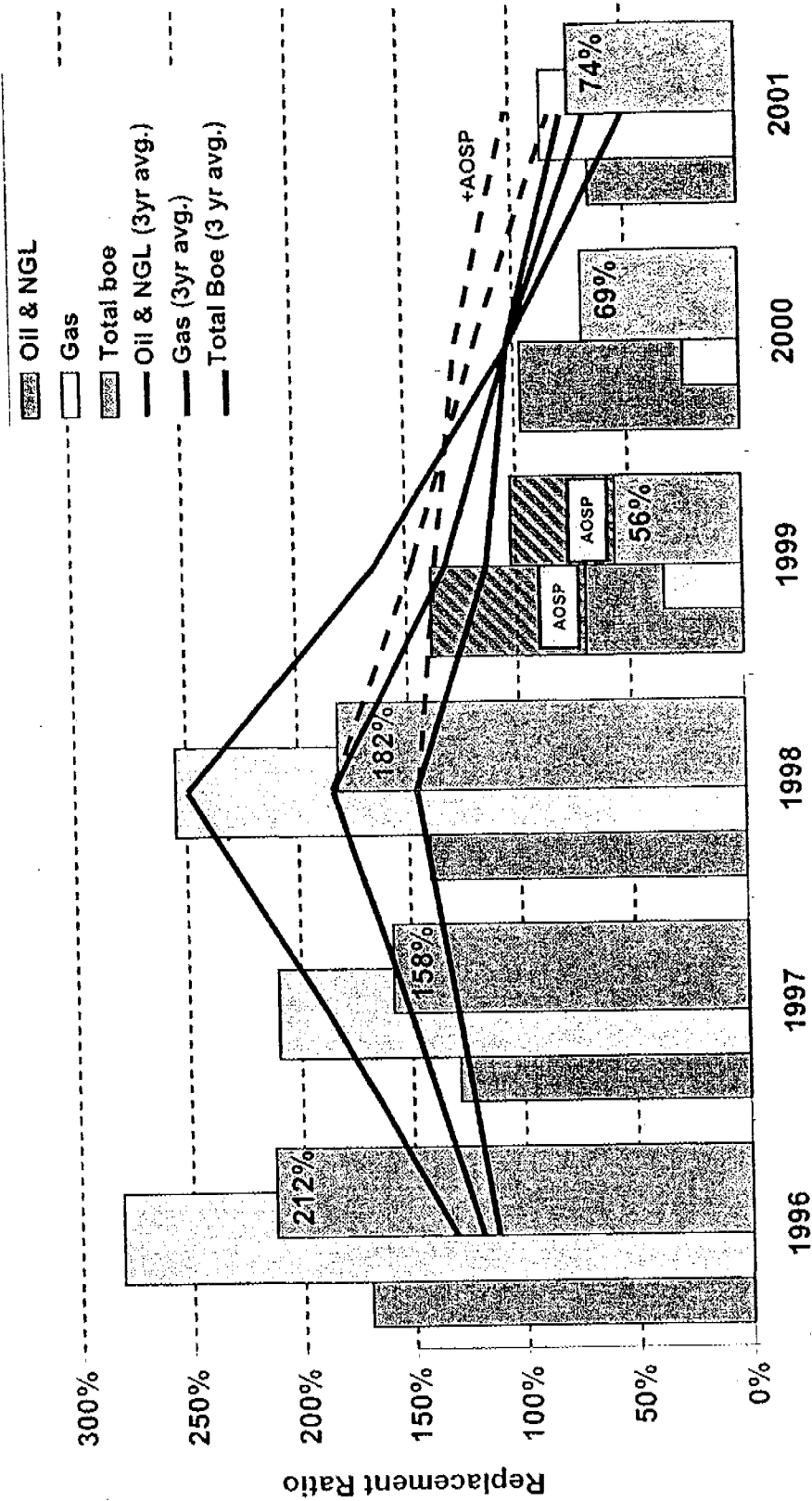
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Figure 3 : 2001 Reserves Actual versus Target



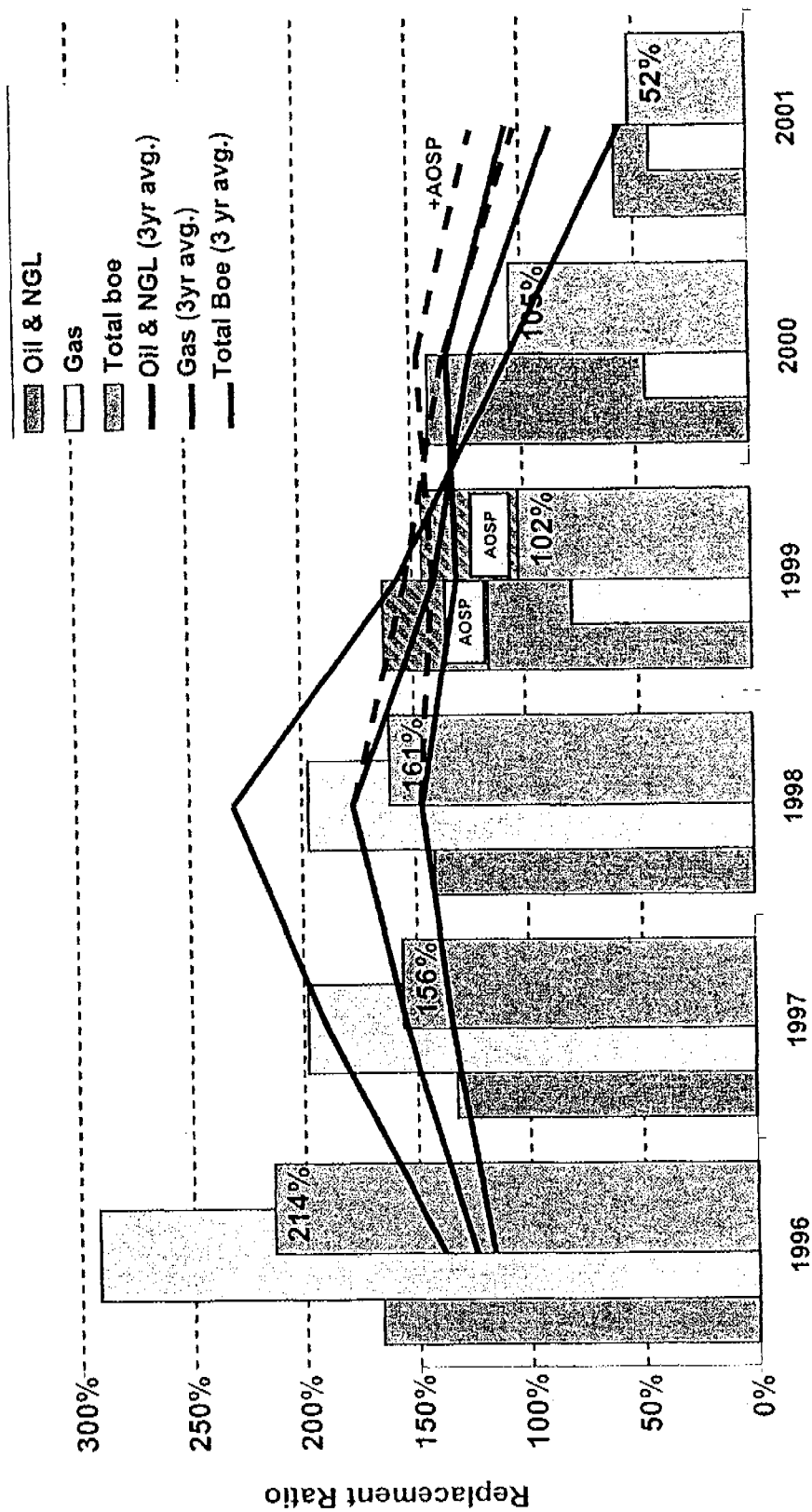
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Figure 4 : Proved RRR (incl A&D)



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Figure 5 : Proved RRR (excl. A&D)



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Figure 6 : Majors Proved Reserves Replacement Ratio [boe]

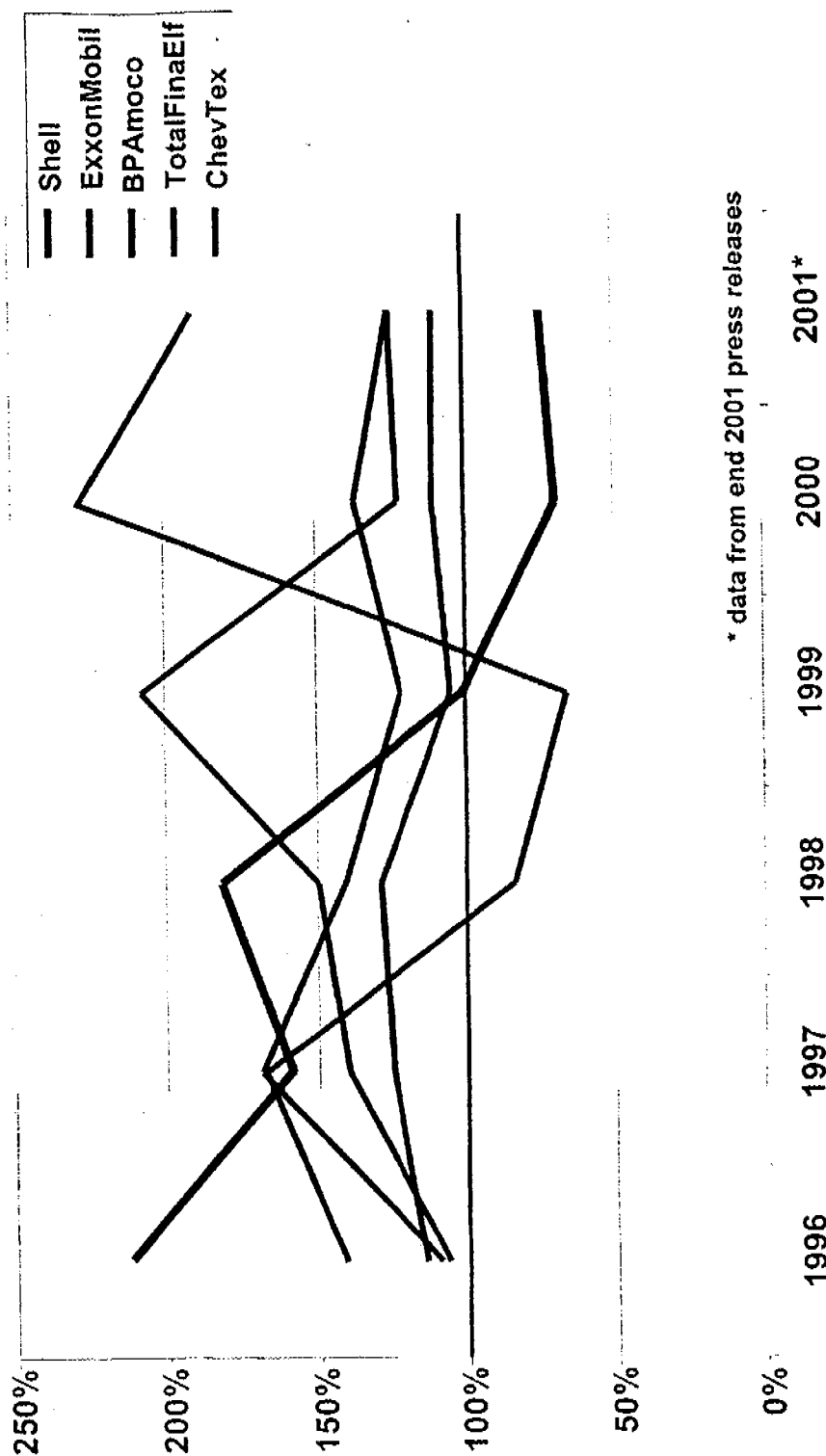
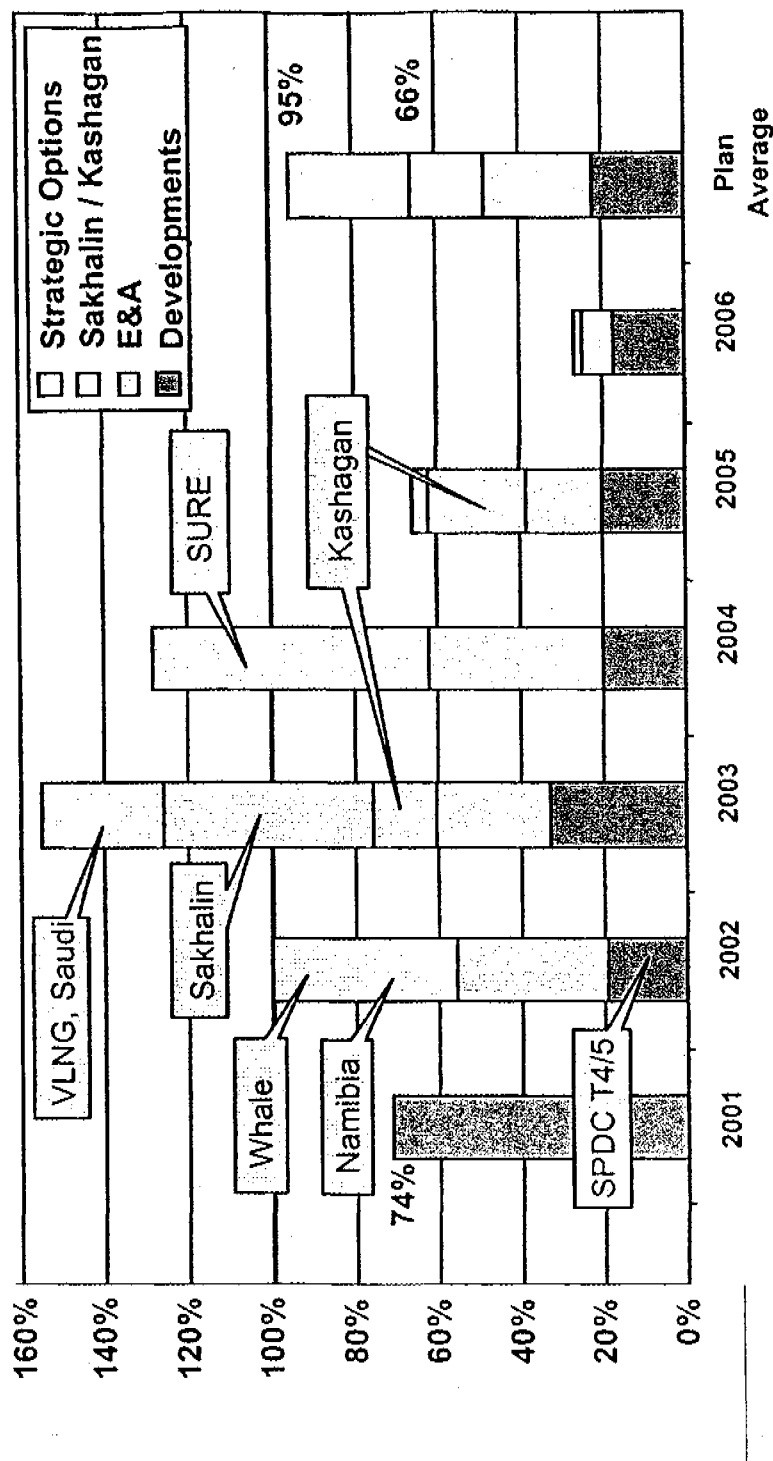


Figure 7 : BP'01 Planned Reserves Replacement

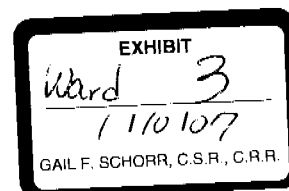


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Unknown

From: DAVIS, PHIL P.
 Sent: 14 May 2002 10:15
 To: WARD, BRIAN B.J.
 Cc: DUHON, CHRIS C.
 Subject: RE: EP Excom - RRR



ProvenGas.ppt

Brian,

I have attached some plots that show the basis for the current proven gas reserves volume of 89 bcm3. Approximately half are associated with NLNG Trains 1 to 3 and the other half with domestic/regional supplies.

The reserves assume massive growth in domestic/regional supplies over the next few years, which would be questionable even for an expectation case, let alone proven reserves. The names used for the different categories of domestic gas in the attachment are confusing so please do not read anything into these. However it is interesting to note that the West African Gas Pipeline is one of them (5.3 bcm3).

In the Country Review we have defined a key review point for the Growth Strategy in the second half of 2003, prior to committing to the T4/5 upstream projects. My suggestion is that we freeze both oil and gas reserves until this major review point.

SPDC have committed to carry out an internal review of the gas reserves by q3 2002, as the current basis is far from clear. A pragmatic solution might be to replace some of the domestic gas with T4/5 (approx 29 bcm3) - at least FID has been taken on the downstream T4/5 project and SPDC have entered binding delivery contracts with NLNG. This would be a more defensible position prior to a more thorough review in late 2003. Note, however, that EPB consistently advise not to book the T4/5 reserves until the upstream projects have been matured i.e. in 2003 (I personally feel this is over conservative).

I hope this gives flesh to Chris's statement below.

Phil

> -----Original Message-----
 > From: DUHON, CHRIS C.
 > Sent: 13 May 2002 11:54
 > To: WARD, BRIAN B.J.
 > Cc: DAVIS, PHIL P.
 > Subject: RE: EP Excom - RRR
 >
 >
 > Brian,
 >
 > T4-5 gas reserves have not been booked. A 1.0 TCF booking
 > was discussed at length earlier this year. I have asked
 > Phil to provide you with specifics ... but the basic story is
 > a familiar theme: there is already an excess of gas reserves
 > on the books that implicitly cover the T4-5 volumes.
 >
 > Chris

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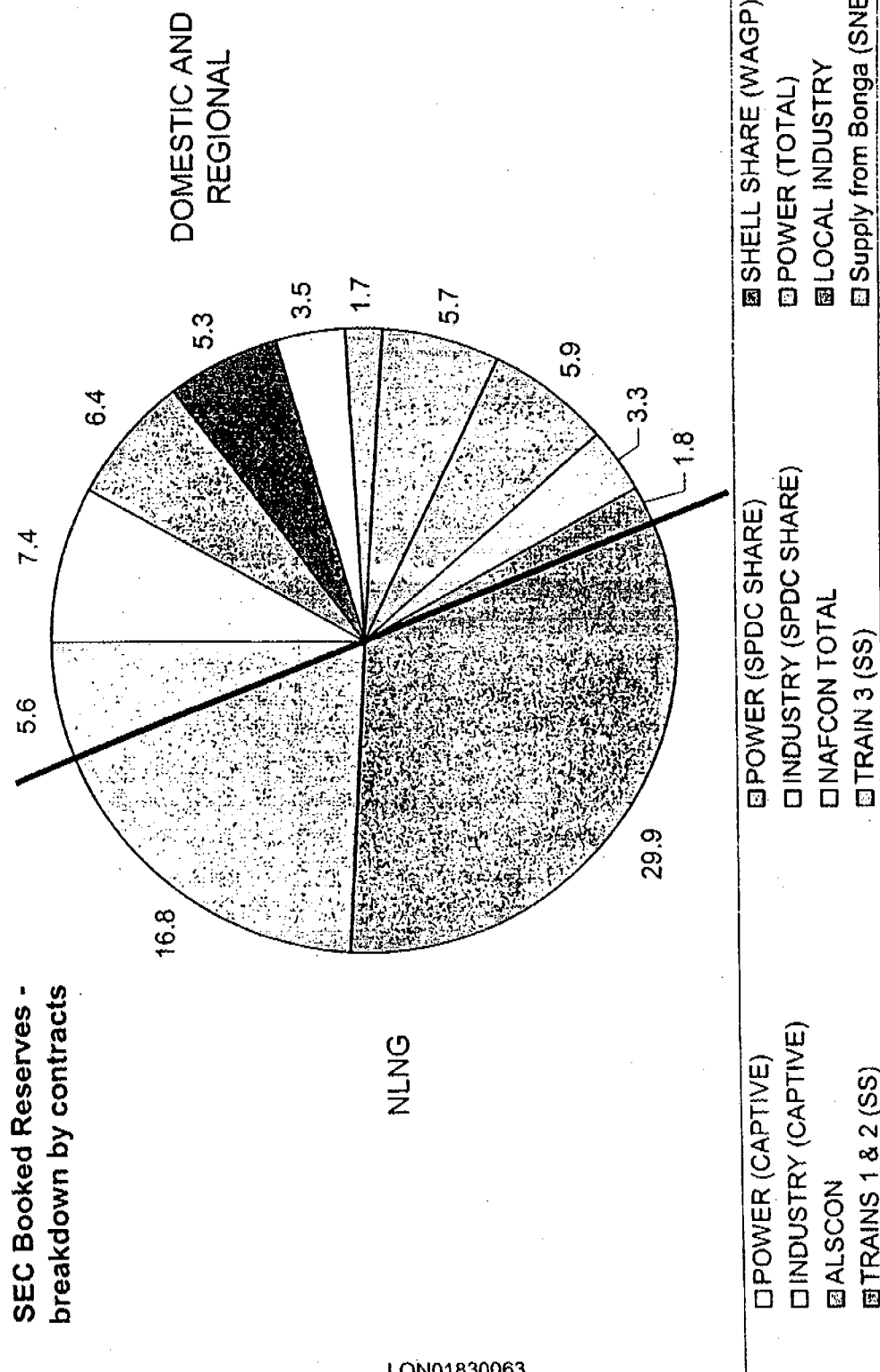
FOIA Confidential
 Treatment Requested

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> > > -----Original Message-----
> > > From: Cook, Linda Z.
> > > Sent: 03 May 2002 19:22
> > > To: WARD, BRIAN B.J.
> > > Cc: Brass, Lorin L.L.
> > > Subject: EP Excom - RRR
> > >
> > >
> > > Brian,
> > > While reading the note to EP Excom on RRR, I was looking for
> > > a mention of LNG projects..... there are major reserves to
> > > be booked in Nigeria now that FID has been taken for Trains
> > > 4/5..... it seems to me the timing of the booking of the
> > > related upstream volumes (GSAs in place) falls in a bit of a
> > > gray area..... May deserve looking into.
```

```
> > > Linda.  
> > >  
> > >  
> > >  
> > > Linda Cook  
> > > CEO  
> > > Shell International Gas Limited  
> > > Shell Centre, London SE1 7NA, United Kingdom  
> > >  
> > > Tel: +44 207 934 3010  
> > > Email:  
> > > Internet: http://www.shell.com  
> > >  
> > >  
> > >
```

Incoming mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.567 / Virus Database: 358 - Release Date: 24/01/2004

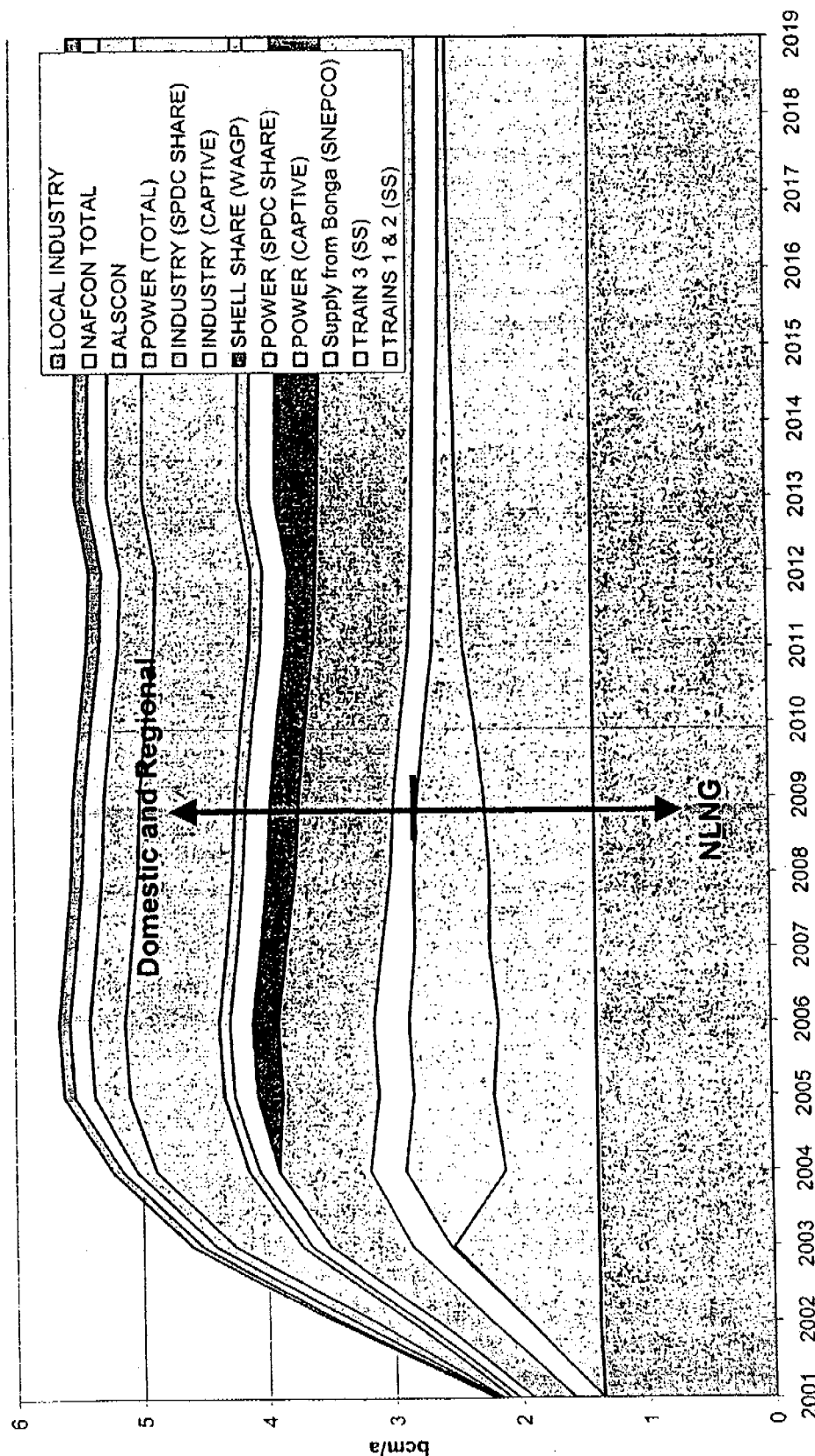
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LON01830063

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Total sales by contract type



LON01830064

Unknown

From: Denelle, Frank FR SI-ID
Sent: 31 May 2002 08:05
To: Van Den Berg, Ron M SPDC-MD; Ward, Brian BJ SEPI-EPG; Darley, John J SIEP-EPT; Dubnicki, Carol C SIEP-EP-HR; Cook, Linda LZ SIG-GP; Watts, Lew NL SIG-GPS; Van de Walle, Leslie LP SIPC-OS; Le Mintier, Xavier X SIPC-AFCE
Cc: Van De Vijver, Walter SI-MGDWV; Withrington, John JK SI-ID; Van der Laan, Marian M SI-MGDWV/DIRMB
Subject: Nigeria Country Review 2002 - Note to CMD
Sensitivity: Confidential

Ladies and Gentlemen,

Please find attached the Note to CMD documenting the Nigeria Country Review 2002 signed off by MGDWV yesterday.

Regards,

Frank

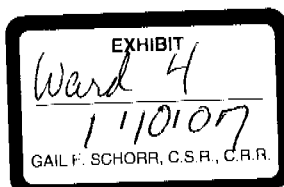


Nigeria Note To
CMD 30 May 02....

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Most Confidential

Note To CMD

Nigeria Country Review 2002

Executive Summary

Previous Country Reviews in 1996 and 1998 recognised the unique position of Nigeria in the Group's EP portfolio. They reviewed the challenges ahead and endorsed the growth strategies advocated. This review gives an update on progress of the business strategies for the Shell Companies in Nigeria (SCIN), describes the critical issues associated with the direction outlined, and proposes new responses drawing on Global EP to "realise Nigeria".

For Shell, Nigeria remains a key country, offering a unique opportunity to deliver the Group's growth plans - it has MRH scale resources and Shell is well positioned with its experience at managing the risk exposures. Besides Nigeria potentially has the largest consumer market in Africa with a population of 120 million.

However, Nigeria is recognised as a difficult and unstable business environment with endemic corruption and high country risk. Despite the return to democracy in 1999, many political, economic and social reforms will be required before there is a tangible improvement in the business environment.

In recent years, SCIN has progressed from an oil company to an integrated energy company. It is the EP-GP industry leader, operating 40-50% of Nigeria's reserves and production, and has established a new OP unit aspiring to enter the Retail market. It has maintained its relationships with Government during the delicate transition from military rule to democracy, and is industry leader in Nigerianisation and local content.

At the company level, SPDC continues the transformation started in 1998. SNEPCO has leveraged Shell Deepwater Services capabilities on the Bonga project and had significant exploration successes. The new offshore prospects are promising and the "Train 3" integrated oil and gas projects should come on stream from end 2002. NLNG started up with two trains in late 1999 and has performed well, from the supply down to the market through process and transportation. The third train is on schedule for start up in late 2002 and FID has been taken on the fourth and fifth trains.

However, SCIN growth plans have not been delivered in the past decade due to internal and external constraints, particularly lack of Government funding and delays in approvals. Funding (budget) has improved, but is still an important issue. There is clear slippage in capacity build-up and in Train 3 Integrated Projects. SPDC's asset integrity remains a major concern and there are still significant gaps in executive capacity. Additionally, Shell's production is currently constrained by OPEC quota restrictions and proved reserves have been subject to a booking moratorium since 2000 reflecting delays in delivery of the growth plan.

Considering the importance of Nigeria for the Group and the commitments already made, there is no alternative but to continue with the strategy of the Growth Programme. Every support will be given by the Group to ensure sustainable growth and delivery, and continue to address Shell's asset integrity and other critical issues in Nigeria. New ways of working will be implemented, supported by a stronger governance model.

There are key milestones associated with growth delivery in the next 18 months - start up of EA and Bonga, Nigeria elections, developments on OPEC and Quota. SCIN delivery will be closely monitored over these months. This will include; implementation of a restructuring of the management capabilities within SCIN; strengthening and clearer focusing on the Country Chair role and dedicated support; redefinition of the SCIN/EP relationship in particular and quarterly OCh-RBDs progress meetings with reports to the RMD. Strategic options will be simultaneously developed to increase robustness of the

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growth strategy, and to respond optimally in case the Growth Programme cannot be delivered as planned. A new review will be conducted in Q3 2003, after the elections and before a series of new major investment decisions, to confirm or otherwise Shell's strategy in Nigeria.

Critical to Shell's success in Nigeria will be to win the "hearts and minds" of the Nigerian and expatriate staff working in SCIN. Only a continued outstanding and visible leadership built on Shell's core values and combining vision, strength and care can achieve it.

1. The Country

1.1 Nigeria Overview

Nigeria is the fourth largest economy in Africa - with a GDP at current market prices of around US\$40bn - one quarter the size of South Africa, just under half the size of Egypt and slightly smaller than Algeria (the other equal leading hydrocarbon producer and exporter on the continent). The track record of Nigerian growth has been poor, with an annual GDP average of just 1.6% in the 1980s and 2.4% in the 1990s. It has been undermined first and foremost by economic mismanagement and secondly by the challenges of managing development with volatile oil revenues. Nigeria has abundant natural and human resources, including oil, natural gas, fertile agricultural land and the largest African population of 120 million providing an abundant workforce and huge domestic market. Yet the majority of Nigeria's people are poor. Income per capita at US\$300 per annum is close to the poorest in Africa, including that of Mali and the Central African Republic - both landlocked and resource-deficient African states.

Nigeria has only just emerged from decades of successive military governments, all of which have been characterised by mismanagement of Nigeria's abundant oil wealth. Elections and the restoration of a civilian government in 1999 have raised hopes for economic and social improvements in Nigeria, but the Government faces an immense task. The Nigerian economy is distorted and inefficient by most international standards. It is also highly indebted and successive years of under-investment have allowed economic decay to set in, even in the key hydrocarbon sector.

Nigeria abandoned restructuring programmes initiated by the IMF in early 2002, after consistently failing to meet economic targets. Both the World Bank and the IMF seem to have run out of ideas on how to assist in the recovery of the world's sixth-largest exporter of oil. Confidence in their ability to influence a vast country divided by ethnic rivalry and religious differences has slipped away. The schism is exacerbated by deepening poverty (some 66% of the population live below the poverty line) and an increasing prevalence rate of HIV/AIDS.

President Obasanjo elected in 1999 promised a new order, free from the corruption, brutality and decay that flourished during the 15 preceding years of army rule. As the 2003 elections draw near, there is a growing feeling among Nigerians that their Government has not lived up to the challenge. Next year's elections will be as critical as the handover 3 years ago from military to civilian rule. Nigerians are not alone in their apprehension. Africa has everything to gain from the stability of its most populous nation, and much to lose otherwise.

1.2 Scenarios

The future development of the Nigerian economic, political and business environment is highly uncertain. The key dates to watch are the 2003 and 2007 elections. While the 2003 elections are attracting all the attention, it may be 2007, with knotty issues of succession, that is a "make or break" for Nigerian democracy. The question is not so much who wins, but rather: will the elections be - by standards accepted by most Nigerians - free and fair?

Nigeria has a number of "hurdles" to cross to achieve political stability and economic reform. Despite some hopeful early indications, there are many different ways in which the country could stumble. Oil

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dependency remains entrenched. Key institutional developments that will have a major bearing on progress include transparency and accountability in governance, establishment of law and order, investment in education and health, as well as the mechanisms for distributing revenues between Federal, State and local government. Key economic developments include privatisation, exchange rate liberalisation, liberalisation of key economic sectors, improving infrastructure, management of government spending, managing the resulting unemployment, and attacking corruption.

In Learning to Fly, the major hurdles of institutional and economic reform are the landmark elections of 2003 and 2007. Progress is initially slow and corruption and bad practices are difficult to uproot. But by 2010, Nigeria is politically much more stable and is poised to grow steadily.

In Puppeteer, political opportunists win a controversial 2003 election. Reforms are blocked, corruption entrenched. Increasing political violence leads to the 2007 elections being postponed, provoking a short-lived coup. Fresh elections are held but Nigeria has wasted ten more years.

In Road to Ruin, a disputed 2003 election leads to increasing political violence, with onshore oil facilities as both target and prize in the struggle. In 2007, secessionist threats lead the army to step in to prevent break-up. In 2010, Nigeria is at a crossroads – painful rebuilding or else complete collapse looms.

In parallel to the political scenarios there are two scenarios that describe how one of the key constraints on production – OPEC – might evolve over time.

In Strong Cohesion Nigeria remains a faithful member of OPEC, which maintains its role as swing producer against an increasing share of non-OPEC supply. World economies recover strongly resulting in oil demand growth and high oil prices to 2006. Total OPEC production increases with Nigeria securing a quota of 2.8 mb/d in 2006. However, the high prices stimulate strong growth from non-OPEC countries, causing a supply glut and oil price collapse in 2007. This stifles further growth in OPEC production until non-OPEC oil starts to decline in 2009.

In Nigeria Out the world economy recovers more slowly causing OPEC to maintain strict production control; Nigeria fails to secure significant additional quota. A further weakening of oil prices happens due to over supply. This results in OPEC demands for further cutbacks. Nigeria initially “over-lifts” then quits OPEC, as it is not prepared to reverse its growth plans. Bi-lateral sales agreements are reached with the USA. And production constraints are lifted. Production reaches 3 mb/d in 2006 and 4.5 mb/d in 2010.

1.3 Energy Scene

Nigeria's potential continues to attract energy companies, despite the country risks and OPEC quota constraints.

In the upstream, Shell is the strongest player regarding operated production and reserves, the largest oil sector's employer, and has the most ambitious growth targets for Nigeria. Other companies include:

- **American IOCs** – The ExxonMobil (EM) and ChevronTexaco (CT) mergers have created portfolios for each of these companies that while still smaller, now mirror the diversity and balance of SCIN's. Texaco and Exxon have brought deepwater positions and expertise complementing the substantial producing positions of Chevron and Mobil mainly in the shallow offshore. Supported by a strong US Government lobby, these companies represent the biggest threats to SCIN. CT's lack of other major West African assets places key strategic importance on growing its business in Nigeria, resulting in a more focused and aggressive competitive approach over the last two years.
- **European IOCs** – TotalFinaElf (TFE) has also gained a more balanced portfolio through its mergers, but seems to currently give priority to Angola for its deepwater discoveries. Agip is aggressively pursuing growth in volumes. It has adopted a strategy to show that it can operate in a variety of venture settings with small but strategic new ventures planned or being implemented in

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deepwater, a joint operatorship with the Nigeria National Petroleum Company (NNPC) and a mooted LNG scheme.

- **The Indigines** - Collectively these are beginning to form a competitive threat to SCIN in so far as they have been protected from the effects of quota restrictions. Volumes produced by indigenous operators have risen to some 160 kb/d, approaching 10% of current quota constrained production.

In downstream gas, competitors' initiatives include the mooted LNG project of the three US consortia, the Agip/NNPC LNG project, the Chevron/Sasol GtL project, the WAPCo (West Africa Pipeline Company) project, and the power projects of the SPDC JV (Afam) and Agip JV.

The domestic gas market is small and unstructured, but growing. SPDC is the dominant supplier and CT currently the only other supplier, with an aggressive associated gas (AG) based supply strategy in the Western Domestic gas market. The domestic power market remains small, but growing and is presently a Government monopoly of the Nigerian Electricity Power Authority (NEPA).

In downstream oil, Shell's largest competitors (EM, CT and TFE) have a retail presence in Nigeria, whereas presently Shell does not. There are also "local majors" like Unipetrol (to which Agip has just sold out) and in the open market, independents. The nation's Oil Refineries are presently owned and operated by NNPC. The Government is presently conducting a tender for construction of additional private refineries, attracting interest of some indigenous companies.

2. Shell in Nigeria

2.1 Group Overview

With respectively 33% and 27% of Shell's oil and gas expectation reserves, Nigeria is a key component of the Group's resource portfolio. Shell has the leading position in the country's energy industry, plays the lead role in deepwater and has financial strength combined with global gas marketing capabilities. Nigeria gives unique access to MRH scale resources, with established onshore production on fixed margin terms, favourable compared to other MRH opportunities and providing low price robustness in the EP portfolio. At the same time, the deepwater opportunities provide balance to capture upside at high oil prices.

Nigeria is the most material organic growth opportunity in the EP portfolio that is "ready to go", expected to contribute ca. 2.5% a.a.i. growth to EP if the Growth Programme is successful. Shell has the aspiration to grow by retaining its position of industry leader in Nigeria, with a Shell-operated share of some 40-50% of a growing production and reserves base. This vision is closely aligned with the Nigeria Government's Vision 2010.

2.2 Shell Companies in Nigeria

Shell has three businesses in Nigeria, namely EP, GP and a much smaller OP business, operating through seven companies or subsidiaries. Those are listed below and their key performance indicators given in Appendix 1.

SPDC (EP) - The Shell Petroleum Development Company of Nigeria Ltd is a 100% Group Operating Company. SPDC is the operator of the unincorporated JV where it has 30% Shell equity (NNPC 55%, Elf 10% and Agip 5%). The JV is one of the cornerstones of the EP portfolio, especially robust at low oil-prices. The 2001 ROACE performance was 43% (including an exceptional item of \$70 million), oil production of 837 kbopd (JV) and gas sales (JV) of 729 mmscf/d.

SNEPCO (EP) - The Shell Nigeria E&P Company Ltd. is developing both operated and non-operated discoveries (Bonga, Ehra, Abo) and is continuing to build a strong acreage position as new blocks become available. First production should be in 2003 (Abo) and Bonga is planned to come on stream in early 2004.

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NLNG (GP) - The Nigeria Liquefied Natural Gas Ltd is a Joint Venture Company (JVC) with its own Board (Shell 25.6% interest, NNPC 49.0%, AGIP 10.4% and TFE 15.0%). Started in 1999, the JV will be the world's 3rd largest plant by 2005. All trains have largely been on schedule and budget and they have been very successful in securing additional cargoes. They are the flagship industrial development in the whole of West Africa. NLNG's 2001 NIAT was \$123 million and is expected to increase to ca. \$300 million by 2006.

BGT (GP) - Bonny Gas Transport Limited, shareholding Shell 25.6%, NNPC 49.0%, AGIP 10.4%, TFE 15.0% plans to have the world's largest fleet of 18 LNG carriers for Trains 1-5 inclusive.

SNG (GP) - Shell Nigeria Gas is a 100% Shell Company, holding a small low-cost (but low return) gas-distribution option in the portfolio and preparing for the expected growth in domestic and regional gas markets.

SNOP (OP) - Shell Nigeria Oil Products (currently 100% Shell Company) is the new downstream operation, established after the divestment of Nalchem in 2000. Relatively small but profitable, it will help delivering the Shell brand and reputation in support of EP-GP operation. SNOP is planning to further develop Commercial fuels and Lubricants businesses, and a two-stage re-entry into the Retail business - some 35 Shell outlets in major Nigerian cities - possibly in partnership with a local company. A separate Note on the subject will be submitted to CMD.

Others - Shell Trustees Nigeria Ltd, subsidiary of SPDC and 100% Shell Company, manages the Shell Nigeria Staff Non-Contributory Pension Fund (\$250 million assets) and Shell Thrift & Loan Fund, mainly covering SPDC current and former employees. Another 100% Shell subsidiary will hold Shell's interest (33 %) in the Niger Delta Loan facility (\$30 million).

2.3 SCIN and the External Environment

Competitors - Despite the competitive pressures, the SPDC JV continues to secure the highest share of Government funding. Having disproportionate (54%) access to NLNG is a key competitive advantage for SPDC and SNEPCO given the flare down requirement in 2008. Competitors (especially CT) with no access to NLNG must mature their own solutions for gas, lagging SCIN and constraining their oil developments in some cases.

SCIN's share of Nigeria quota has slipped from 41% in 2001 to 37% in 2002 as indigenous producers have been protected from OPEC cuts and the Government decided to include spiked condensate within allocated quotas. SCIN is lobbying to redress this with the Government.

Communities - People of the Niger Delta continue to demand a greater stake of the oil income. The Government has responded through the 13% derivation fund (% of Government oil revenues now flowing to oil producing states), and the Niger Delta Development Commission (NDDC) funded jointly with the Oil and Gas Industry. The situation has improved, but corruption at the State and local government levels is limiting the benefits seen by local communities. Rebellious elements in the Niger Delta exploit this situation to extract additional benefit from the industry (245 community disruptions, 53 hostage/kidnap incidents and increasing oil theft in 2001) and damage facilities, resulting in 1536 project man-days lost and 35 MMbbl oil deferred in 2001. Meanwhile, SCIN spent a record \$60m on Community Development (CD). As Shell has the largest onshore acreage, it is more exposed than any other operator, and is also more associated with community issues in Nigeria in the eye of the public.

Government relations - Since 1999 SCIN has forged new relationships, created networks and taken proactive measures to build capacity with the new democratic Government. Government relations are good at the highest level, and the relationship with the new NNPC is improving after two difficult years in 1999 and 2000, where bureaucracy delayed projects and threatened to stifle industry initiative. However, the environment in which the SCIN/NNPC relationship exists is still difficult, with NNPC under intense scrutiny and challenge on all fronts, from the legislature in particular. While industry is continuously challenged to do more on local content, SCIN has gained "off the record" credit with

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Government as industry leader in local content, in contracting industry capacity building initiatives, and in the level of Nigerianisation of its workforce

Stakeholder engagement and reputation management – Within Nigeria, a comprehensive approach has been adopted with respect to engagement with communities, local and international NGOs, the media and all tiers of Government. Openness and transparency are essential qualities of such engagements.

A full-time team based in London assists Shell in Nigeria with managing its reputation and with its engagements with international NGOs, international media and others interested in Nigeria (including UN agencies, the World Bank organisation, development agencies and foreign governments). The aim is to remain in touch with such organisations so that issues of concern (including human rights) can be discussed and dealt with at an early stage, and to encourage stakeholders to work with Shell in Nigeria.

2.4 Business Strategies

Shell Nigeria has value components along all three Group strategic pillars. Making the most includes the existing assets and committed business for the onshore part of the JV, the shallow offshore, NLNG and SNOP. Here the focus is on operational excellence, active portfolio management, and capital efficiency. Getting new business includes the upstream portfolio related to Trains 4&5, a potential Train 6, exploration in the shallow offshore, the Deep Water portfolio, Shell Trading and SGS. Breaking new ground includes the potential for swaps and the development of a strategy to monetise non-associated gas.

In the short term, the focus is on delivery of profitable growth, mainly oil production supported by a significant contribution from NLNG. Over the next five years, SCIN NIAT will move from relying exclusively on swamp and land production in the SPDC JV, to a more diverse, financially robust portfolio with a roughly equal three way split between NLNG, deepwater EP and shallow offshore/onshore EP, plus OP with revenues generated largely through continued crude trading and a Retail re-entry.

2.4.1 Exploration & Production

EP strategy is to grow SCIN operated production to 1.5 mb/d by 2005, and to 2 mb/d by 2010 from the current 670 kb/d OPEC-constrained rate (the unconstrained rate is 860 kb/d against a 2002 target of 834 kb/d). SNEPCO will be one of the top-10 producing EP OUs by 2005, providing significant upside to the Nigerian portfolio, especially at high oil prices.

This strategy remains aligned with Nigeria's ambition to grow production to 4 mb/d and reserves to 40 billion barrels by 2010. The growth is ambitious, requiring access to significantly increased OPEC quota and assuming limited constraints on delivery.

2.4.2 Gas & Power

Current GP strategy is still very much in support of the upstream business: through the competitive priority that it generates for SCIN integrated upstream oil and gas projects in the Government and NNPC planning. Currently this is manifested through the achievement of high SPDC JV budgets in 2001 and provisionally in 2002, and it is also expected to facilitate OPEC quota capture in due course when T3 and T4/5 supply projects come on stream.

NLNG – Train 3 is now targeted to start up in Q4 2002, the LPG facilities for Trains 1-3 to commence export in Q1 2003 and Trains 4&5 to start up by Q1 2006. Key is for SCIN (EP) to continue to meet its gas supply commitments to NLNG, which, otherwise, has the option to go for other AG suppliers (competitors). Discussions for a 6th Train may commence during the course of 2002. If all 6 Trains materialise, the total contracted volume of the entire NLNG-JVC will amount to 25 Tcf (of which the SPDC JV will supply about 60%). This compares with Nigeria's gas reserves of 140+ Tcf, which shows the enormous scope for further utilisation schemes (FLNG, SMDS, pipelines, domestic market or further LNG trains in the longer term).

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Other gas opportunities – SNG aspires to be the leading gas distributor to domestic industries, the commercial sector, bulk LPG users and small IPP's, but this business will remain small for the next 5 years. Apart from inherent profitability, market/customer risk and the need for innovative securitization arrangements are the principal current challenges. In the longer term, opportunities may also exist to monetise SGN's abundant NAG reserves to international and domestic markets beyond the requirements of NLNG. These will require feasibility study attention to develop options.

2.4.3 Other Businesses

SNOP – OP's aspires to be one of the three most profitable downstream oil companies in Nigeria on a ROACE basis. Shell Nigeria Oil Products (SNOP) will focus on developing the commercial fuels and lubricants market and entering the retail market (possibly with a local Partner). SNOP offers ways of communicating Shell brand to customers and to enhance Shell reputation in and outside Nigeria and vis-à-vis government

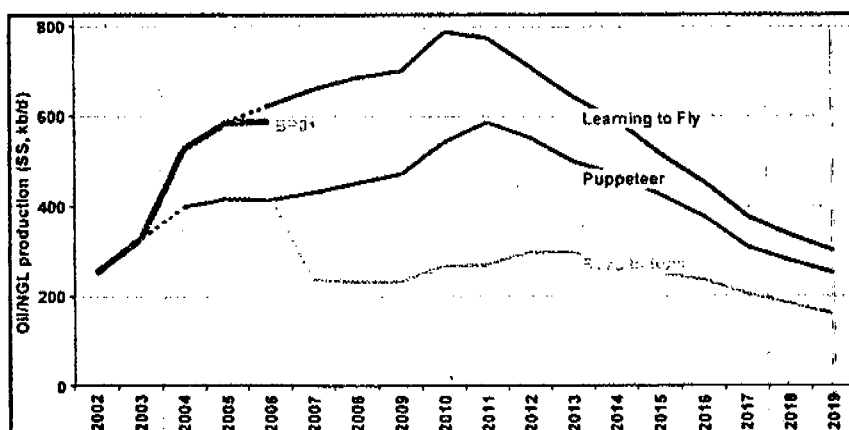
Shell Trading is the leading importer of refined products for NNPC. Commitment to quality, reliability and relationships are key differentiators.

Global Solutions – SGS acts as consultant to NNPC at the Port Harcourt Refinery, now experiencing the highest levels utilisation for a decade and is contracted to manage the Warri Refinery Turn Around Maintenance (TAM).

Renewables – Solar has some activity in Nigeria mainly consisting of tendering for SDPC projects, involvement on Community Development (CD) projects and a new possibility on a residential estate development by Shell Trustees.

2.5 Scenarios Sensitivities

Some initial assessments of the Growth Programme in the light of the Nigeria scenarios have been made. This work will be further developed during the next Business Planning cycle. The current EP-GP Business Plan (BP01) production forecast tallies with the assumptions of the **Learning to Fly** scenario. Under this scenario, SGN related production would increase to almost 50% of the 4 mb/d Nigeria



Government vision by 2010 (780 kb/d is Shell share), coming from SDPC JV (1,540 kb/d onshore, 130 kb/d shallow offshore) and SNEPCO (230 kb/d). Domestic gas and power markets would grow. The OP plan is also based on this scenario.

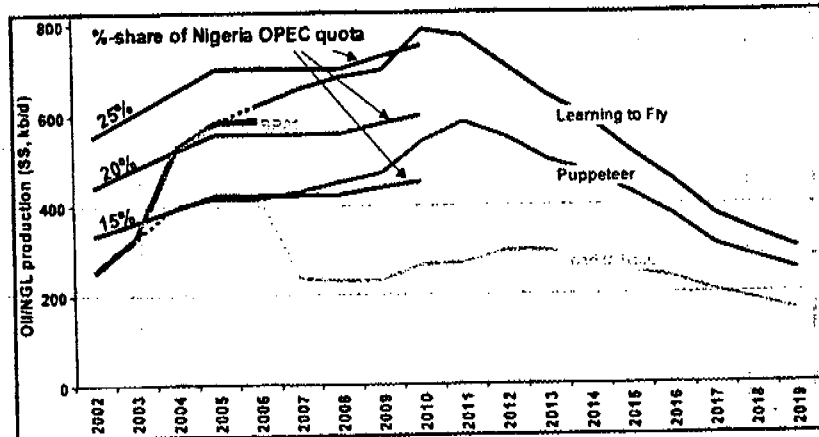
In **Puppeteer**, the domestic gas markets would grow at a reduced rate as a consequence of, inter alia, delays in the necessary liberalisation measures. Delays in Government approvals would likely impact the GP projects (e.g., SNG, Afam, Abuja), the Exploration and Appraisal follow-up and most Deepwater projects. It is also likely that the Group would want to control country exposure. Shortfalls in AG supplies to NLNG would be compensated by increased NAG. Production under this scenario would be some 200 kb/d (Shell share) lower than planned under the Growth Programme from 2003 onwards. Total oil production is approximately 600 million bbls less than current proven reserves (Shell share). For OP, the Puppeteer environment is similar to what has been experienced and

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managed in Nigeria prior to 1999. This would entail renewed pressure on SGBP (Human Rights) and Group reputation.

Road to Ruin would lead to scaling down of all projects, although additional NAG projects may be undertaken to secure supplies to NLNG. Total production under this scenario is 2 bln bbls less than current proved reserves. For OP, investment proposals would be frozen but the lubricants and commercial businesses could continue to profitably operate albeit on a small-scale basis. Road to Ruin is included mainly as a robustness test and is arguably a less likely outcome than the other scenarios.

In addition to the Nigeria Scenarios, the impact of OPEC is central to Shell's growth prospects. The two OPEC scenarios, Strong Cohesion and Nigeria Out, start to differ from each other only after 2007, when Nigeria leaves OPEC under Nigeria Out. Learning to Fly requires an increase of Shell share of Nigeria's quota (and/or



combined with institutionalised "over lifting") from today's 12% (37% JV) to 20% before the end of this plan period, 2006. At the same time, the competitors are also investing on the assumption of an increase in their share of quota, making for a highly competitive environment.

3. SCIN Challenges and Responses

As documented in the 1998 Country Review, Shell faces a large number of serious challenges in Nigeria. This is particularly true for SPDC. The JV is central to SCIN, as major operator of Shell's interest, main supplier of gas to NLNG and SNG and service provider to the other Shell interests. Besides, SPDC Directors largely represent the Shell face to external stakeholders, as they double-hat many SCIN activities. SPDC performance impacts on all Shell's interests in Nigeria.

A recent joint EPG/SPDC review has shown that, despite the transformation of SPDC started in 1998, considerable capability gaps remain. These relate to the existing business - particularly the management of hydrocarbon production, asset integrity and the effectiveness of basic services - as well as to the major challenges posed by the Growth Programme. The Country Review has confirmed that, despite progress in a number of areas, the long list of issues facing SCIN presents a serious challenge for the already stretched staff in Nigeria. Responses will require an acceleration of the change process combined with new approaches in partnership with the Group, drawing on the resources and capabilities of Global EP, to ensure they are resolved or at least managed in the most effective manner. The management style, which evolved in response to handling ongoing daily issues and crises has given SCIN a unique flexibility and capacity to adapt. A more structured approach with stronger governance is now required to simultaneously manage/resolve SCIN issues and lead the implementation of the Growth Programme.

Issues identified as top priorities for immediate action are described in the following sections with *responses in italic*.

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3.1 Secure increased OPEC quota

In recent months, Nigeria has had to constrain production to adhere to its 8% share of OPEC production. Meanwhile SCIN's share of Nigeria quota fell from 41% to 37%, while its reserves and production capacity are over 50% and 46% of the country respectively (indigenous producers are exempt from quota). This is currently limiting SCIN production by 200 kb/d (100% JV). OPEC quota will be an even bigger issue for EA and Bonga, as production from these offshore projects generates less revenue for the Government than production from the onshore JV does. Given the major projects due to come on stream in the coming 2 years, a solution must be found to remove this constraint.

Responses: in the short term, the SCIN's strategy is to increase its share of the Nigeria quota. It relies on (i) engagement of NNPC, the Presidential Adviser on Petroleum Matters and the Presidency, (ii) media campaigns (to bring EA and other projects to the foreground) and (iii) technical support (proving the capacity to produce). Other levers are being worked, including improving API quality and ensuring that unreliable refinery take is excluded from nominated take. EA (due on stream at end year) is likely to be a key test of Government policy, as failure to secure additional quota will send negative signals to the Industry as a whole, particularly the emerging deepwater play.

For the long term, the SCIN strategy is "more quota for Nigeria". SPDC is helping the Government to build a strong case for a larger share of OPEC quota to create space for Nigeria to produce, based on capacity buildup of real projects, supported by socio-economic considerations. The Government intends to go public with this case later this year, which may help SCIN secure more quota for forthcoming projects such as EA and Bonga and others, ahead of several major competitor projects.

Besides the above industry initiative, Shell may consider assisting the Nigerian Government in reviewing its oil and gas strategy in the light of various energy scenarios. The Group (PXG, ID) is assisting Mexico in this direction and a similar project could be done in Nigeria, if requested by the Nigerian Government. EP will need to review the overall Group exposure to OPEC producing countries and the place of Nigeria in this.

In both short term and long term strategies, SCIN will work with EP to ensure both full leverage of Group resources and influences and optimization of EP production globally.

3.2 Sustain adequate Government funding and reduce arrears

Insufficient budget and delayed NNPC response to cash calls (leading to arrears) caused major constraints to SPDC growth until 1998. Since then, SPDC has secured sufficient and substantially increased budget, assisted by effective lobbying. Alternative funding (AF) of Exploration and Appraisal, sole risk on shallow offshore, PSC funding for deepwater and escrow self-funding for NLNG have been successfully established and allowed unhindered development. However, since 1998, release of funds through the cash call mechanism has added to costs and, in some cases, delayed projects, and arrears have remained at high levels, putting pressure on borrowing limits. Arrears have developed for various reasons over the last few years, in some cases, lack of funds and timing of budget approvals by the Government, in other instances, NAPIMS/NNPC not approving the actual spend by SPDC on a timely basis.

Response: SPDC needs to sustain its effective and continuous lobby approach to budget and arrears issues. Structural changes, already being discussed, also need to be followed through with NNPC and others to improve the cash call process and reduce arrears. SPDC has made significant progress in 2002 in securing NAPIMS approvals for expenditure, which it plans to take further to ensure that there are no internal reasons for arrears. SPDC is also working to secure agreement in 2002/2003 to a revised process, which will allow for sustained transparent and smooth release of agreed JV budgets, including arrears repayments.

As a contingency measure, new alternative funding mechanisms will need to be identified. SCIN will establish a specialist team based outside Nigeria to study new options and delivery strategies.

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3.3 Effective deployment of sufficient executive capacity (resource the plans)

Major capability gaps have been identified and need to be bridged with urgency for both base business activities (particularly asset integrity) and the Growth Programme in terms of competencies and executive capacity. The Nigeria talent pipeline should be optimally allocated to all Shell entities in Nigeria (SPDC, SNEPCO, NLNG, etc.).

Response: in the short-term, it is essential that more Group staff be urgently deployed in Nigeria (particularly for operations and maintenance activities). This, however, can only be a partial solution given the overall shortage in key technical skills across E.P., the general reluctance of staff to work in Nigeria and the limited capacity for SPDC to absorb new staff. Alternative strategies are being pursued, including conducting more work overseas and getting more support from selected contractors. Increased organisational focus within SPDC is also needed as well as raising staff effectiveness through improved basic services.

A range of initiatives is being pursued, including a new centre for field development studies outside the Niger Delta and support from the new E.P-Projects Group. These measures should help meet requirements, but effective implementation will be a major challenge requiring co-ordinated efforts from SCIN and across E.P.

A small SPDC-EPG team will address the mechanisms for implementation of the recommendations of the SPDC Programme Development (Resourcing) Review and will produce an Integrated Plan by July 2002, including monitoring aspects. The team composition will be chosen to facilitate buy-in to the new concepts from the existing organisation in Nigeria.

3.4 Restore and maintain asset integrity

There is a backlog of maintenance activities following a period in the 1990's when funding was highly constrained. A combination of budget restriction, prioritisation and executive capacity still restricts the rate at which the backlog can be cleared.

Response: progress has been made including development of asset integrity and HSE management systems, and projects initiated for pipeline replacement, and refurbishment of the Bonny Terminal. Steps now being pursued include the introduction of modern maintenance systems, sourcing of key Group staff and retraining of existing field staff, as well as the development of a stronger maintenance culture within the organisation.

3.5 Provide adequate security

The level of security in Nigeria is low, with increasing criminality and routine violence due to poverty and poor law enforcement, combined with regular ethnic, religious and cultural clashes.

Response: SCIN has policies in place to provide a secure business environment while safeguarding Group reputation. It is improving its security management and the physical protection of its people and assets, with the support of Global Security. Federal and State Governments have also begun to accept responsibility for providing an investment friendly security environment. This remains an area of intense lobby effort. The profile of this topic will be raised further, including addressing it as an industry investment issue for Nigeria.

3.6 Continue transformation - Energise the workforce (inspired leadership)

Resourcing the business continues to be a major challenge, both in terms of filling vacancies and in developing competencies for the jobs. SPDC is not attractive to Group expatriates and is losing the race for scarce talent. The efficiency of staff is impacted due to shortcomings in support infrastructure. Union disruptions and inability to obtain the loyalty of some of our scarce Nigerian resources is a concern. Winning the battle for the hearts and minds of staff, local and expatriate alike is key.

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Response: an HR strategy addressing the key people issues is being introduced. It has so far resulted in starting to build relationships with the Unions as well as encouraging an improved sense of affiliation for staff with the company. Remuneration policy is to remain competitive in the top quartile of the upstream Nigerian industry while a performance recognition and management process to embed a performance culture has also been introduced. As the largest oil industry employer SCiN needs to be proactive in developing a strategy for remuneration in the oil industry, rather than being a follower of the smaller mainly US companies. Such a stance would be welcomed by Government to ensure that oil industry salaries are benchmarked within the economy and that inflation is controlled. Effort in future will also include the improvement of relations between Nigerian staff and their expatriate counterparts. In this light, a Diversity and Inclusiveness plan for SCiN is needed to ensure acceptable representation of gender; racial representation is already tracked.

The development of Nigerian talent continues with the overall objective of Nigeria becoming a net exporter of talent to the Group. This will further enhance Shell's reputation on capacity building and contribution to Local Content among its competitors in Nigeria.

3.7 Hold recent gains and making further progress in SCiN's relationship with NNPC

NNPC is the key SCiN stakeholder. Apart from its interests in SDPC JV, NLNG and SNEPCO (as licensor) it exerts significant regulatory influence on a range of topics. In the past three years, relationships with NNPC have been dominated by the aftermath of the Value for Money (VFM) audit and subsequent claim (\$2 billion, still unresolved). Relations in 1999/2000 became more difficult with the new NAPIMs playing a regulatory "watchdog" role. These have since improved but needs to be consolidated.

NNPC has a stated objective of becoming an operator in its own right on a par with, e.g., Petronas and Petrobras. Some competitors have taken NNPC as a joint operator partner in a few exploration licenses, hence the process is underway. This could undermine the relationship Shell-NNPC and lead to loss of influence.

Response: in addition to improving current engagement and processes, SCiN believes it should proactively support NNPC aspirations towards being an operator. SCiN will establish a team with EP to develop a structured framework including training, cross posting, secondment and developing IT networks for this purpose. The global reputation of Shell in this case will be a key facilitator of change.

SCiN is currently working on several joint industry initiatives with the Government and NNPC. These include improving structures and modalities for JV cash call/funding, improving local content, integration of industry NDDC/CD initiatives, and building a case for increased OPEC quota for Nigeria. A joint industry position has also been established on the desirability to roll over the 2000 MOU when it expires by end 2002 and, in due course, industry may work together on license extensions.

3.8 Protect and realise reserves

SPDC proved oil reserves are potentially exposed, as they were booked too early, assuming a timely delivery of the Growth Programme. If delivery is further delayed for any reason, some of the reserves could only be produced past the licence period, and therefore could not continue to be carried as proved reserves. As a protective move, EP decided to freeze the level of reserves in 2000. This booking moratorium is unlikely to be lifted in the near future, leading to persistent downward pressure on the Group Hydrocarbon Reserves Replacement Ratio. The proved gas reserves were not part of the moratorium, but now appear to be under similar pressure to be frozen in view of the lack of reasonable certainty that the gas volumes can be produced within the license period.

Response: if the Growth Programme is delivered on time, the risk of de-bookings can be postponed. Alternatively, portfolio actions need to be identified (e.g., peripheral fields) that may help release this tension on reserves. In the mean time, exploration spending is reduced to the absolute minimum required to meet contractual obligations.

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Securing license extension beyond 2019 will also reduce exposure and may allow booking of new proven reserves as SPDC has continued to add impressive quantities of physical reserves. An EPG-SPDC team located outside of Nigeria will assess how to do so through, inter alia, divestment deals with NNPC. Dialogue with the Government on modalities of license extensions is ongoing in a low key manner, as it is understood that license extensions will be received "anyway" as long as commitment has been demonstrated.

It must be noted that major Shell's investments have not yet been leveraged to extend the licence extension or get more quota. Future major FIDs should be used for that purpose.

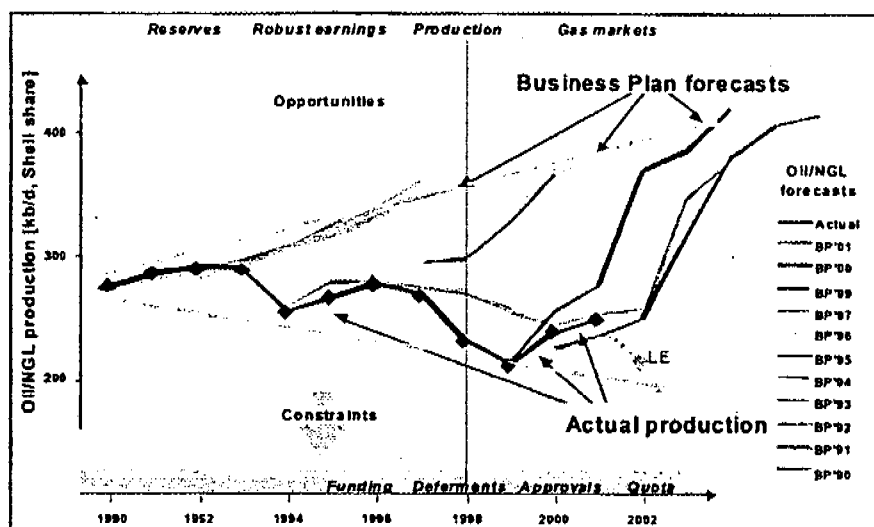
This issue is key to the Group and will also be addressed as part of the Global EP T&OE (Technical & Operational Excellence) project on Group Reserves.

3.9 Manage a long list of important issues

Another key challenge, unique to SCIN, is to have to simultaneously address – i.e., resolve or manage – a long list of important issues, as documented in Appendix 2. Each of these issues is significant on its own and must be addressed with continued effort and seriousness as they have the ability to disrupt the plan.

4. Realising Nigeria

Given the importance of Nigeria for the Group and the commitments already made for the Growth Programme, SCIN must deliver on its promises. There is no alternative, but to "realise Nigeria". However, history has shown that Shell's growth aspirations in Nigeria have rarely been met (see plot below) and future success cannot be taken for granted. New approaches and increased control are thus required, together with fallback positions in case delivery did not materialise as promised.



Oil production forecasts of a decade of consecutive SPDC Business Plans (various colours) against Actual production (dark blue).

It must be noted that the target has been exceeded in 2000 and 2001, but that due to OPEC quota the Actual is likely to be below Target for 2002.

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4.1 Governance

New Ways of Working – Nigeria is a significant element of the EP portfolio. Given the importance of the growth plans to the EP business and the challenges faced by the present organisations (SPDC in particular) a new approach to conducting Shell EP business in Nigeria is necessary. New ways of working will be introduced, drawing on the resources and capabilities of Global EP and supported by relevant structures and processes. As a first step, EPG and the SPDC MD will agree the new modus

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operandi, to be followed by the development of the appropriate governance model and implementation/communication plans.

Role of the Country Chair – Maintaining Shell's key positioning in Nigeria depends on many aspects including performance, SD, reputation, but most importantly effective co-ordination of Shell efforts and optimal relationships with key stakeholders.

In this environment, the Country Chair as Shell's Ambassador plays a key role to achieve the Group's aspirations. With the recent SCIN developments, the job has grown to be almost full-time and dedicated support is needed to both address the SCIN issues and to support the Country Chair. Some of these SCIN activities are presently carried out on a part time or double hating basis by mainly SPDC staff. SCIN resourcing however needs to be addressed, considering the clear stretch on SPDC management capacity and the need for prioritisation and focus on delivery within SPDC.

ID will make a proposal for support by the Businesses who will fund these activities.

4.2 Delivering on Milestones

The recommendations of the Country Review must be implemented over the next 18 months as per milestones outlined below:

Milestones End 2002	Milestones Q3 2003
EP new modus operandi operational with new governance model in place	Targets of Growth Programme met on time
Resources review integrated plan implemented	All projects adequately resourced
OPEC quota secured for EA	FID's on all Trains 4/5 upstream projects taken
Asset inventory completed, status known, action plan to remedy agreed upon	Proven gas reserves of Trains 4/5 booked
Arrears below \$400 million	FID's on deepwater projects taken (Bonga SW, key exploration)
Value for Money claim resolved	OPEC quota secured for Bonga and EA
Acceptable responses for risk profile developed	Implementation of the asset integrity restoration and maintenance plan on target
New structures and processes proposed by the Country Review in place and working	Arrears below \$200 million (no non-approved NNPC work in this figure)
SCIN Diversity and Inclusiveness policy in place	Strategic options fully developed with implementation plans
Delivery on target, keep to realistic promises	Support Services Directorate in place and fulfilling staff and families' expectations
	Shell number one on Mori poll in Nigeria

4.3 Monitoring the Delivery

The coming 18 months are crucial to the success or failure of the Group's aspirations in Nigeria. Given the strategic importance of Nigeria to Shell, alignment of issue management among the Shell's stakeholders over these coming months is essential.

Given the major milestones of EA, Bonga, Nigeria elections, scenarios and OPEC/Quota developments, a Nigeria Steering Committee, consisting of the Nigeria Country Chair, RBDs and chaired by the RMD will be established. It will monitor delivery of growth plans and preparation of options in the event of non-delivery of growth as discussed in this Country Review.

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4.4 Strategic Options

Options appear limited due to the commitments already made to the Growth Programme. Results of a preliminary investigation conducted as part of the Country Review are summarised below. Further in-depth work is recommended, to be lead by the Businesses working closely with SCIN's planning units.

Portfolio actions – Should the growth programme take place as planned, the Nigeria footprint for Shell in terms of capital employed and production will be like SEPCo and Expro today. It is uncertain how this will be perceived in the market place. A strategy must be developed to manage this footprint through portfolio actions, particularly for the onshore JV where the country risk is largest. SCIN has already prepared deepwater portfolio swap packages for possible use in Group's strategic asset swaps, and has studied options for peripheral acreage in the SPDC JV.

Employ internal flexibility – SCIN offers a diverse portfolio of linked activities, in principle enabling portfolio optimisation options to be developed. This already takes place to an extent between NLNG and SPDC, but a more deliberate strategy should be designed exploiting the different terms (e.g., deepwater versus onshore), shareholdings (e.g., shallow offshore versus onshore), crude quality (API) or feed gas (AG versus NAG).

Low cost holding options – Despite the high-predicted growth rate, other options exist to grow even faster, namely deepwater gas exploration and appraisal, regional projects (e.g., West African gas pipeline), domestic gas, etc. Actively pursuing them is currently not recommended, *as all focus must be on timely delivery of the growth programme*, but they should be maintained as low cost holding options.

4.5 Review Q3 2003

A review will be conducted after the elections and before new major FIDs are taken to assess the business environment and confirm the ability of SCIN to deliver on its promises. If the uncertainty of the Growth Programme remains high and its doability is not proven – for external or internal reasons – Shell's strategy in Nigeria will be reviewed in the light of the above strategic options, and activities slowed and/or scaled down as appropriate.

Walter van de Vijver, MGDWV

30 May 2002

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Appendix 1

SCiN Key Performance Indicators

SCiN

Business	NIAT2001 \$millions	ACE2001 \$millions	ROACE2001	NIAT2006 \$millions	ACE2006 \$millions	ROACE2006
EP	405	1,930	16%	855	4,660	20%
GP	129	1,486	9%	302	2,621	7%
Other	36	80	44%			
Total	570	3,496	16%	1,193	7,361	16%

SPDC

SPDC 2001 KPI Shell share	Result	% of EP	Rank in EP
Oil (kb/d)	251	8%	4
Gas (mmscf/d)	219	2%	12
BOE (kboe/d)	288	8%	3
Proved reserves (mln boe)	3170	16%	1
NIAT (\$mln)	405	5%	6
ACE (\$mln)	946	4%	5
IBVc (\$mln)	3300	8%	4

SNEPCO

SNEPCO 2001 KPI all figures Shell share	Result	% of EP	Rank in EP
Proved reserves (mln boe)	609	3%	11
ACE (\$mln)	477	2%	12
IBVc (\$mln)	1550	4%	9

NLNG

NLNG 2001 KPI all figures Shell share	Result	% of GP	Rank in GP
Gas (mmscf/d, T12)	150		
Contracted sales (Tcf, T1-5)	3.7		
NIAT (\$mln)	123		
ACE (\$mln)	1459	17%	
IBVc (\$mln)			

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Appendix 2

SGiN Challenges Overview

	Must Do	Should Do	Others
Operational Excellence	<ul style="list-style-type: none"> • Develop and implement new approaches with Global EP • Resource the plans • Build local staff competencies • Strengthen executive capacity • Deliver major milestones on time(EA, Bonga) • Demonstrate producing to capacity • Develop acceptable responses for risk profile • Obtain quota for EA & Bonga • Start short-term OPEC/energy solutions initiative 	<ul style="list-style-type: none"> • Be cost leader in Nigeria industry • Optimise the organisation • Improve SGiN control framework • Deliver acceptable infrastructure for staff • Deliver on improved IT/communication systems • Settle Reserves addition bonus • Prepare responses to scenarios • Allocation of scarce Nigerian talent within SGiN • Shell Nigeria Gas materiality 	<ul style="list-style-type: none"> • Start new projects, T4/5 and T6 • Update Nigeria gas strategy
Funding	<ul style="list-style-type: none"> • Fix arrears, now at all time high • Ensure adequate budget cover 		
Stakeholder Relations	<ul style="list-style-type: none"> • Address NNPC lack of trust • Continue transformation: energise the workforce (inspired leadership) • Attract, retain and grow local talent 	<ul style="list-style-type: none"> • Assist NNPC aspirations and capacity • Partner with local acreage holders • Improve Expatriate attractiveness 	<ul style="list-style-type: none"> • Prepare Response to competitors • Address Trade union issues
License to Operate	<ul style="list-style-type: none"> • Catch up on asset integrity, Ogoni and Shell reputation • Improve HSE • Provide adequate security • Deliver on SGBP • Protect reserves position • Manage community disturbances • Improve SPDC internal processes (SAP) • Resolve Value for Money claim 	<ul style="list-style-type: none"> • Redirect CD pressure from SGiN to NDCC • Move from CA¹ to CD • Improve image of SPDC operator role • Split out SPDC JV – Shell roles (conflict of interest) • Obtain access to Ogoni land • Increase Shell share of Nigeria OPEC quota limit • Develop OPECLT options 	<ul style="list-style-type: none"> • Develop SGiN policy on HIV/AIDS • West African pipeline and reputational risk

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¹ CA: community assistance – CD: community development

From: Ward, Brian BJ SEPI-EPG
To: Okpere, Kisito O SNEPCO-SND; Haan, Ebbie E SEPI-EPG
CC: Mcfadden, Sean H SNEPCO-SNPE; Ogunnaike, Tunde A SNEPCO-SNPM; Birch, Roger R SNEPCO-SNAM; Leonard, Mark MS SIEP-EPT-D; Sears, Richard RA SIEP-EPT-DE; Agrawal, Arun A SNEPCO-SNCP; Van Der Lee, Jan-Willem A SNEPCO-SNAD; Van Den Berg, Ron M SPDC-MD; Haan, Ebbie E SEPI-EPG; Duhon, Chris C SIEP-EPG
BCC:
Sent Date: 2002-09-20 08:29:38.000
Received Date: 2002-09-20 08:31:37.000
Subject: RE: SNEPCO Reserves Audit
Attachments:

Kisito, thanks for the heads up. De-booking of reserves must be endorsed by myself and Excom before any action is taken. I, for one, am certainly not convinced that we cant use the Bosi argument on Erha - but need to look at it in detail. I would like you to help Ebbie Haan to prepare a note for discussion to Excom which puts the Group auditors view across followed by our own technical assessment of pros and cons.

Taking a hit on debooking in 2003 only to rebook 1 or 2 years later needs careful consideration.

Brian

-----Original Message-----

From: Okpere, Kisito O SNEPCO-SND

Sent: 20 September 2002 09:18

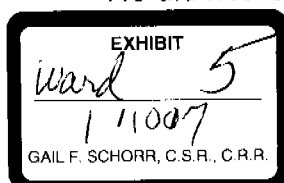
To: Haan, Ebbie SEPI-EPG

Cc: Mcfadden, Sean H SNEPCO-SNPE; Ogunnaike, Tunde A SNEPCO-SNPM; Ward, Brian SEPI-EPG; Birch, Roger R SNEPCO-SNAM; Leonard, Mark SIEP-EPT-D; Sears, Richard SIEP-EPT-DE; Agrawal, Arun A SNEPCO-SNCP; Van Der Lee, Jan-Willem A SNEPCO-SNCB; Van Den Berg, Ron

Subject: SNEPCO Reserves Audit

The SNEPCO reserves audit, conducted by an external auditor (Anton), was concluded last week in SDS. The official report will come later from the auditor but the following were the highlights:

- * The auditor was impressed with the quality of the technical work done on the fields and our adherence to the 'proven area' calculations as required in the 2002 guidelines in the current numbers presented to him.
- * He fully accepted that our booked figures were based on the old P85 methodology - according to the 'old' guidelines. He did not spend much time auditing them on the understanding we would update everything for the 1/1/2003 ARPR. This means de-booking reserves in Erha and Bonga.
- * He did not feel that Bonga SW was technically or commercially mature enough for a booking



on 1/1/2003.

* Apparently, SEC frowns at the practice of linking remuneration through scorecard targets to proven reserves because it tends to encourage inflation of reserves (or asset value) without strict compliance to the SEC guidelines. I believe this is an action for SIEP to implement group-wide.

* The final audit conclusion was a 'satisfactory' rating. We could not get a good rating as the updates had still to be done. On the other hand we needed the audit to give legitimacy to the updates.

See below, more detailed comments by Sean McFadden on field-by-field basis:

ERHA

- Unfortunately Anton did not accept that we could offset Erha against Bosi due to the immature nature of Bosi and the fact that it has not even been appraised yet.
- He had a minor recommendation on the proved area in Erha to remove on unpenetrated fault block which lowered the proven reserves from 380 MMbo to around 350 MMbo. This left us about 80 (100%)MMbo short of our booked value
- Erha was the only field that he had a technical comment on. His conclusion was that the connectivity discounting was to not sufficient based on comparisons with the Bonga 690 and 803. We convinced him to accept it in the end after meetings with myself and Joshua Oletu although he was still uncomfortable with the high P/E ratio.

ABO

- He accepted not to change Abo as the wells in early next year, which are fully committed, will confirm the proved area.
- He had a minor recommendation on checking some areas in POOL-3 which may not be connected but this will have a small impact.

BONGA.

- After going through all the main reservoirs and IFO's - one by one he had only a few minor recommendations on proven areas which were implemented on the fly. He also accepted the probabilistic addition but the final number was still about 160 MMbo(100%) short of our booked value.
- We had one panic session on Thursday when he wanted to remove all of the IFO as it had not passed a VAR-3. Luckily I had a session in the morning on IFO plans with Dirk Andel in preparation for next week and we were are to use this material to convince Anton on Thursday afternoon just before the feedback session to leave in the IFO. The new story on the IFO is that VAR-3 would not be needed except for the NW area which needs new infrastructure in excess of \$100 million. All of the penetrated bodies can be funded after var-2 as they can be hooked into existing infrastructure without major expenditure.
- He never really committed to accepting that we could offset Bonga reduction until we had drilled the IFO wells even if they were next year.

BONGA_SW

- The discussions onBongaSW took half a day instead of 2 hours.
- I also detected a level of discomfort within the project team with having BongaSW took half a day instead of 2 hours.
- I also detected a level of discomfort within the project team with having the do the VAR-3 in October (latest plan is November) as they will not be completely ready with all the Phase-2 models. There was a lot of debate about whether the models were necessary or not. If we want to guarantee success at VAR-3 then I feel they are necessary but not everyone agreed

as there are precedents of fields in the GOM which have passed VAR-3 with less. The driver for VAR-3 in 2002 appears to be now only to support a reserves booking which however the auditor has not supported .

The bottom line :

- We will get a very commendable 'satisfactory' rating due to the quality of technical work and our strict adherence to the new guidelines
- We will have to debook about around 240 MMbo at 1/1/2003

EP EXCOM
Minutes of meeting held in The Hague
18th October 2002

EP Excom Members Present

Walter van de Vijver, Chairman, Matthias Bichsel, Lorin Brass, Frank Coopman, John Darley, Carol Dubnicki, Dominique Gardy, Din Megat, Bob Sprague and Brian Ward.

Curtis Frasier attended as Secretary.

1. Business Plan 2002

Walter van de Vijver updated the Excom on the progress of the 2002 Plan following meetings with CMD earlier in the week. He said that the present draft of the 2002 Group Plan indicated a 12% ROACE at reference conditions. The CMD was looking for a final Plan that would include \$3 bln in divestments, result in a gearing level of approximately 25% and include capital investments of some \$12 bln (he noted, however, that the businesses had submitted Plans identifying \$12.8 bln in investments). ROACE and proposed investment levels were shown for the various business segments.

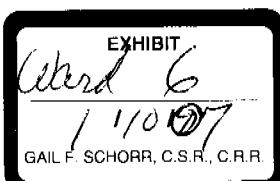
Turning to the EP Business Plan for 2002, Walter compared and contrasted recent Actual ROACE and the 2001 Plan with the LE and current 2002 Plan – noting the significant downward shift. He then reviewed production growth, reserves replacement and unit operating cost – all of which are challenged, and showed the Excom the performance figures required to close the gap between the Plan and promised performance.

Walter told the Excom that he had withdrawn the Group Budget Proposal for the North America Campus from the CMD Agenda. As a non revenue-generating investment, it was not consistent with the current pressure on spending. This was considered a deferment, not a cancellation, and will require thoughtful communication. In the interim, options for restructuring the financing of the project should be investigated. **Action: Darley, Coopman**

Walter concluded by reviewing some potential means of addressing the challenges posed by the Plan. He tabled a list of Action Items and Excom Member Involvement required prior to the Excom/CEOs meeting scheduled for 28th October. Excom Members should provide their information directly to Lorin Brass by the close of business on Friday, 25th October. **Action: All**

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2. EP - The Road Forward

Walter introduced the challenge of the road forward for EP. He described: (i) setting the challenge to take the risks necessary to "get out of the box", (ii) making connection between our past and our future, (iii) integrating and managing the changes, and (iv) getting a sense of our own alignment. He cautioned that the way of thinking that got us here is still alive today.

The 3-Ps (portfolio, performance and people) are an established and well-known part of the EP vision and strategy. The road forward would have its own 3-Ps: the Pain, the Path and the Prize. Walter reviewed these in the context of history, business choices and response to external realities. He acknowledged that some changes were already underway, but a great challenge remained.

3. People on the Path Forward

Carol reviewed the people and organisation decisions to be addressed, along with proposed milestones and a timeline.

Following discussion, the Excom agreed:

- The "stage 1" impact was needed for presentation to MDC on 12th November.
- EP Strategy & Planning will report directly to the CEO, not through NBD.
- Regional NBDs will have a direct reporting line to NBD (with arrangements as to how this will work in EPM to be further agreed by Din and Loren).

4. The EP Globalisation Project

John Bell reviewed the proposed allocation of \$500 mln in savings targets across EP. He noted that these savings represented only 13-20% savings in expenses over a period of 5 years. The numbers allocated were based on high-level benchmarking with further refinement to come from execution of the Project. Although this allocation totaled \$500 mln, actual savings were expected to be in the range of \$5-800 mln.

The process and procedures for progressing the project were discussed. Walter noted that the appointment of a Team Leader would be a subject for the MDC meeting on 12th November.

All agreed that an effective communication plan would be essential.

V00300855

5. EP Europe Project – Progress Report

Brian Ward presented a report on the progress of the EP Europe Project, describing the key deliverables and project management structure. He told the Excom that the team was focusing on 10 major activities, and reviewed each in the context of the Project timeline.

Brian told the Excom that the desired characteristics of a new EP Europe included: (i) one business organization, (ii) flexible and highly compatible, (iii) recognized leader in HSE and rapid deployment of best practices, (iv) partner and employer of first choice, (v) continuous improvements, (vi) high in challenge and support, (vii) strong “interface” with Shell Energy, and (viii) focused exploration effort.

Next, the vision and targets were reviewed. Brian told the Excom that the objective was to create “the next generation of EP company”. He reported that a significant prize was already beginning to be identified.

- The Excom emphasized that any “local” initiatives, such as this, must be conducted and executed in a manner which ensures Global alignment.
- It was noted that an “Enterprise mind-set” (top-down approach to execution) would be the most effective in these circumstances.
- Effective engagement with stakeholders regarding both people and location issues was critical.
- A communication strategy that can deliver a clear and compelling story will be essential.

6. A Winning Story

Brian Ward presented an initial outline for the communication package.

- The Excom noted the need to have the information reviewed carefully by IR prior to any broad distribution. Action: Coopman
- While it was felt that numbers help to make the story feel real and provide a tangible target, the use forward-looking goals to establish a “stake in the ground” would be preferred to expressing it in terms of “gaps”.
- It would be useful if the benefits to government stakeholders could be explicitly included.
- High quality graphics should be developed and included.
- Development of foreseeable Q’s and A’s should begin immediately.
- The final product will need a dedicated professional effort.
- For presentation to the Excom/CEOs meeting scheduled for 28th October, it will be sufficient to revise the existing work. Action: Ward

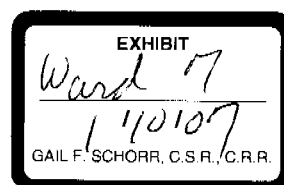
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Unknown

From: Ward, Brian BJ SEPI-EPG
Sent: 13 November 2002 02:36
To: Turner, Bob RHS SIEP-EPGO-P
Subject: RE: Effect of Min. standard on Production Forecasting

OK thanks

---Original Message---

From: Turner, Bob RHS SIEP-EPGO-P
Sent: 11 November 2002 13:46
To: Ward, Brian BJ SEPI-EPG
Cc: Clubb, Mike M SIEP-EPGO-P; Helmer, Thomas TOM SIEP-EPGO-P
Subject: RE: Effect of Min. standard on Production Forecasting

If you mean that the current (growth) targets we are working towards are a stretch then yes, that is what I hear. The other comment that goes hand in hand with it is that 3% growth is only sustainable if you have something like 120% reserves replacement.

In the standard I have avoided all non precise descriptions like Production Target, promise, stretch etc. The issue for us on a corporate level will be what forecasts do we want to promise the outside world? If we take the 50 / 50 then we will only deliver it 50% of the time ... is that acceptable?

When I get back I'll start work with the EPB boys to see how we want to handle this:-----

Regards.

Bob.

-----Original Message-----

From: Ward, Brian BJ SEPI-EPG
Sent: 09 November 2002 20:06
To: Turner, Bob RHS SIEP-EPGO-P
Cc: Clubb, Mike M SIEP-EPGO-P; Helmer, Thomas TOM SIEP-EPGO-P
Subject: RE: Effect of Min. standard on Production Forecasting

BY your last sentence I presume you mean that the 50/50 is really a 10/90?

Brian

> ---Original Message---

> **From:** Turner, Bob RHS SIEP-EPGO-P
 > **Sent:** 29 October 2002 03:15
 > **To:** Ward, Brian BJ SEPI-EPG
 > **Cc:** Clubb, Mike M SIEP-EPGO-P; Helmer, Thomas TOM SIEP-EPGO-P
 > **Subject:** Effect of Min. standard on Production Forecasting

> Brian,

> Some early warning

> From the feedback and global discussion I'm getting I believe

> the Production Forecasting min. standard could be a 9.0 on

> the Richter scale. Its becoming clear that:

> * There is a lot of "hope" (= management adjustment) in our

> current forecasts round the group

> * No one seems to "own" the 3% growth target at the

> production end of the business

> * Upside potential is overestimated and downside risk underplayed

> It is quite possible that when we add all the 50/50 forecasts

> that we get a surprise (and I don't mean a pleasant one) ...

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- > but the good news is at least we will have a credible
- > starting point if we choose to use it (which is
- > something we don't have at the minute).
- >
- > The main message we need to send out now is that 50/50
- > forecasting is not an opportunity to get back to taking a
- > wrap around the arm.
- >
- > Regards.
- >
- > Bob
- >
- > Bob Turner
- > EP Discipline Head. Subsurface Production and Fluids Engineering
- > Shell International Exploration and Production B.V.
- > Volmerlaan 8, Postbus 60, 2280 AB Rijswijk, The Netherlands
- >
- > Tel: +31 70311 2861 Fax: +31 70311 2085 Other Tel: +31 611047890
- > Email: Bob.Turner@shell.com
- > Internet: <http://www.shell.com/eandp-en>
- >

Incoming mail is certified Virus Free.

Checked by AVG anti-virus system (<http://www.grisoft.com>).

Version: 6.0.567 / Virus Database: 358 - Release Date: 24/01/2004

Coopman, Frank F SIEP-EPF

From: Van De Vijver, Walter SI-MGDWV
Sent: 31 January 2003 11:24
To: Chapman, Jim JW SIEP-EPGO-H
Cc: Coopman, Frank F SIEP-EPF; Pay, John JR SIEP-EPB-P; Brass, Lorin LL SIEP-EPB;
Darley, John J SIEP-EPT; Freeman, Karyn KL SIEP-EP-EA; Ward, Brian BJ SIEP-EPG
Subject: Change Magazine- RRR
Importance: High

Jim,

I am totally shocked and amazed to learn about the article "drawing on credit".
Knowing the sensitivity on our reserves base and formal reporting guidelines, how could you have contributed
to such an article in a magazine that also gets distributed externally?!

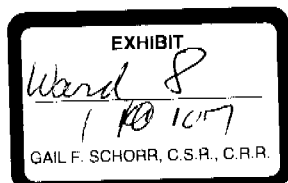
As senior reservoir engineer in the T& OE leadership it is even more surprising.
The article is totally unfit for external circulation.

As an aside, we need to dramatically improve the formal control around the publication of this magazine (if we want
to continue it, somehow
I do not see them anyway) through EA and Finance.

Regards,
Walter

Walter van de Vijver
EP CEO and Group Managing Director
Shell International B.V.
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RJW00190173

Unknown

From: Ward, Brian BJ SEPI-EPG
Sent: 03 February 2003 10:25
To: Darley, John J SIEP-EPT
Subject: RE: Jim Chapman

You said it John, technical content! I take your point however. (so much for openness by the way!).

-----Original Message-----

From: Darley, John J SIEP-EPT
Sent: 03 February 2003 18:40
To: Ward, Brian BJ SEPI-EPG
Subject: RE: Jim Chapman

Brian,

In my view there are two issues here. One is on disclosure of share-price sensitive data - and I can perhaps understand that Jim was not aware of such sensitivities (but he does hold a senior role in the EP technical organisation) - but the other is the general pitch of the article. To make such statements as "In the past there was perhaps too much of a short term focus", "without looking at how to fill the gaps" are hardly a strong advertisement for our role as a long term player giving full attention to optimising the development of resources. I find it very difficult to understand why Jim felt such quotes to be appropriate in an external publication.

For your info, I have given instructions not to continue distribution of the magazine and to recover and destroy all distributed copies.

I have also asked for procedures to be developed to ensure proper formal authorisation of future issues (including IR, External Affairs etc), but I must admit that I would normally have looked to discipline experts in T&OE as the final arbiters of technical content ???

John

-----Original Message-----

From: Ward, Brian BJ SEPI-EPG
Sent: 03 February 2003 17:50
To: Van De Vijver, Walter SI-MGDWV
Cc: Darley, John J SIEP-EPT
Subject: Jim Chapman

Had a word with Jim. This whole thing came up months ago under the auspices of "Why T&OE?" Jim, being the head honcho for Petroleum Engineering recited the issues around the box - the key one being - from his viewpoint - reserves replacement. It was absolutely clear he had NO IDEA as to the sensitivities around disclosure. (And to be fair to him the latter has been building up significantly over the last year.) , and was merely trying to egg the troops on to greater things

I have explained the "rules of the game" regarding share sensitive information and will share in general with T&OE.

In the meantime Jim has received a severe jolt and will certainly not make the same mistake again.

Brian

Brian J Ward
 EPG
 Shell International Exploration and Production B.V.
 Carel van Bylandtlaan 30, Postbus 663, 2501 CR The Hague, The Netherlands

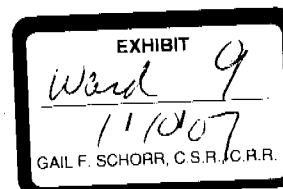
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Email: Brian.Ward@shell.com
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Incoming mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.567 / Virus Database: 358 - Release Date: 24/01/2004

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DB 01686

Darley, John J SIEP-EPT

From: Ward, Brian BJ SEPI-EPG
Sent: 02 December 2003 08:47
To: Coopman, Frank F SIEP-EPF; Brass, Lorin LL SIEP-EPB; Darley, John J SIEP-EPT
Cc: Van Went, Renee R SEPI-EPG
Subject: RE: proved reserves

Importance: High
Sensitivity: Confidential

Frank minor typos in blue. The amount of reserves to be "firmed up" in Nigeria during 2004 (estimated 42 man years effort!!) is substantial. The 42 man years attacks 580 mmbbls reserves. Of that 580 it is already estimated that 140 mm bbls will be so far in the future it wont qualify. They are then proposing a discount factor of 80% to the remainder $(0.8 * 440) = 352$. Thus we can sort of put our hand on our hearts technically and add back 352 mmbbls. However these numbers change every day as work progresses. My feeling would be to take the full hit in January 2004 (circa 1.5 bn bbls = immature + exposed = $814 + 720$ mmbbls) and start rebooking end year. Otherwise we are yet again exposed especiaaly should the SEC decide to review during 2004). It also makes a nice twist to the story - quote " work will be done to bring reserves up to SEC regulations during 2004 and we would expect to start rebooking later during the year." unquote

Brian



Script for Walter on
the prove...

-----Original Message-----

From: Coopman, Frank F SIEP-EPF
Sent: 02 December 2003 07:56
To: Ward, Brian BJ SEPI-EPG; Brass, Lorin LL SIEP-EPB
Subject: proved reserves

Please do not copy or forward this note.

<< File: Script for Walter on the proved reserves position.doc (Compressed) >>
 No feedback as yet except from Judy (not happy).

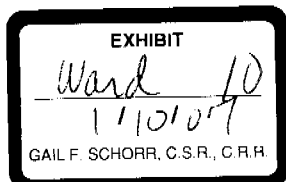
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Script for Walter on the proved reserves position

Facts

1. Recent (October --November) audit reports and completion of reserves studies concerning the proved reserves positions as per year end 2002 for SPDC and PDO Oman tell us that the 31/12/02 proved reserves for those companies were overstated by approximately 1.3 bln boe.
2. Correspondence with the SEC in 2003 (last letter received in September) on the topic of the LKH issue leaves us with the message from the SEC to de-book the volumes below the Lowest Known Hydrocarbon logged. These volumes are estimated to be approximately 300 mln boe.
3. The proved reserves bookings as filed in the 2002 20F included a number of items which, while in compliance with our own guidelines at that time, were possibly at odds with the strictest possible interpretation of the SEC guidelines. It was decided to leave them as, in aggregate, they were regarded as immaterial in relation to our total proved reserves position. The largest single position was Gorgon (557 mln boe). All others added up to less than 200 mln boe.

Consistency with previous presentations

The position described above is consistent with an October presentation to the GAC and a related NFI to CMD. What is new are the items under point 1 above, which became known only very recently.

Materiality

With the SPDC and PDO Oman volumes, the total volume not in compliance with SEC guidelines in the proved reserves filing in the 20F as per 31/12/02 has become significant (2.1 bln boe or 11% of the Group's total proved reserves).

The materiality test is whether the total change in reported reserves would be viewed by a reasonable investor as having significantly altered the total investment information available. Applying that parameter, the absolute quantity and the percentage is material.

If a de-booking or restatement was considered, the financial impact thereof is very limited (approximately 40 mln dollars after tax in 2003) and not material in Group (or EP) terms. This is because virtually all volumes to be adjusted are registered as proved undeveloped reserves – this category only rarely drives DD&A.

There is no effect on existing or past reserve addition bonus schemes (in Oman and Nigeria).

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Completeness

If we were to de-book /restate points 1 – 3 above, would we then be in full compliance with the SEC guidelines?

There is a possible issue around our Kashagan reserves (380 mln boe). Total is being challenged right now by the SEC to de-book on the grounds of the absence of a government approved development plan.

Both PDO Oman and SPDC will have to further mature field development plans in 2004 to be fully compliant and avoid further adjustments.

Fuel and Flare

All major competitors include fuel and incidental flare in proved gas reserves, with the exception of BP who report on the same "as sold" basis as Shell.

Including fuel and flare would result in approximately 300 mln boe additional reserves as reported at 31.12.2002. However, implementation is not as straightforward as it would at first appear. Inclusion of fuel and flare requires a corresponding Opex charge to be made (at fair market value of the gas consumed), offset by a revenue entry. Consequently, including fuel and flare in any restatement of historically disclosed reserves would also require changes to several financial report line items. Whilst feasible, this would be a major undertaking requiring dedicated study work on the part of every operating company that disclosed production in recent years.

Therefore, it is recommended not to include fuel and flare in the restatement.

Legal Consequences and Required Steps

If and from the time onwards that it is accepted or acknowledged by the management of the issuers (Royal Dutch and STI) that, when applying the SEC rules, the 2002 proved reserves as reported in the Form 20-F are materially wrong, the issuers are under a legal obligation to disclose that information to all investors at the same time and without delay. Not to disclose it would constitute a violation of US securities law and the multiple listing requirements. It would also increase any potential exposure to liability within and outside the US. Note that the reserves information also appears in the non 20-F Annual Reports.

Disclosure cannot await the next Form 20-F 2003 appearing in April 2004. With respect to the 2002 Form 20-F there are two possible approaches to address the previously reported reserves: (i) a stock exchange release stating the key issues on reserves restatement followed by a filing of a restated 2002 Form 20-F as soon as possible thereafter or (ii) the same stock exchange release with the added message that the changes will be reflected in the 2003 Form 20-F and no filing of a restated 2002 Form 20-F. The preference is for the more robust approach in i) as the SEC is likely to request for a restated 2002 Form 20-F and the reliance by investors on an uncorrected 2002 Form 20-F remains an issue.

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A significant number of additional measures will be required around a restatement of the 2002 Form 20-F and the previous dissemination of incorrect proved reserves data on Group websites and in other publications. Sox 302 re-certification, Form 6 K filing, consultation with external auditors, communication with the SEC, briefing for analysts etc.

IR issues

The announcement of restating or de-booking the reserves will be a significant negative IR event. We will point out that we did not lose any significant hydrocarbon volumes, as this is basically a re-classification. Our expectation estimate of the total volume of resources will be largely unaffected. Our own strict rules and governance triggered this adjustment. The LKH issue remains controversial in the industry (but rules are rules, etc). The Gorgon development decision is getting closer, as the recent bi-lateral declaration of intent demonstrated.

Frank Coopman
John Pay

1 December 2003

DB 10105

STAMP

Expectation Review

↳ Given:

Based on project set

- List of projects

"Payed Complaint"

SEE

"Not payed Complaint"

De-briefed volumes

↳ expectation

↳ scope for recovery

↳ when come back - FID?

Project Anti set with Richard Watline.

Clayton

PDO given reviews:

no serious look

data base is disarray

emulative in old P&S.

> List of projects (large assets) - exposure 2001/1966. Phil / Joe
- first pass

"Don't de-brief if have a plan"

Saturday am

DB 10106

V00160450