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0001
        IN THE UNITED STATES DISTRICT COURT
1
          DISTRICT OF NEW JERSEY
2
           Civ. No. 04-3749 (JAP)
           Hon. Joel A. Pisano
3
  IN RE ROYAL DUTCH/SHELL )
  TRANSPORT SECURITIES
  LITIGATION
                      )
6
7
         VIDEOTAPED DEPOSITION UPON
8
           ORAL EXAMINATION
              OF
           ANTON BARENDREGT
9
10
             VOLUME I
11
             Taken on:
         Monday, 19 February, 2007
12
         Commencing at 10:52 a.m.
13
             Taken at:
14
         The Hague Zurich Tower
            Muzenstraat 89
15
           2511 WB The Hague
            The Netherlands
16
17
18
19
20
21
22 REPORTED BY: FREDERICK WEISS, CSR, CM
0002
1
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  the Class:
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  BERNSTEIN, LIEBHARD & LIFSHITZ, LLP
5
   Deponent: Anton Barendregt
   The Videographer: Richard Bly
8
   Court Reporter: Frederick Weiss
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  Examination by Mr. Haber
6
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10
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  Barendregt Exhibit 1 -
11
  Shell document entitled "Creating Value
12 Through Entrepreneurial Management of
  Hydrocarbon Resource Volumes" bearing Bates
13 Nos. GUI000398 through GUI 000422
14 Barendregt Exhibit 2 -
                                      97
15 Draft Note dated 5 May, 2002 authored by
  Anton A. Barendregt, bearing Bates Nos.
16 RJW01001167 through RJW01001170
                                     107
17 Barendregt Exhibit 3 -
18 Note dated 31 May, 2002 authored by Anton
  Barendregt regarding SEC Proved Reserves
19 Audit, with Attachments 1, 2, 3 and 4
  Bearing Bates Nos. RJW00061605 - RJW00061620
20
21
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   Barendregt Exhibit 4 -
5
   "2002 SEC RESERVES AUDIT BRUNEI -
   CONCLUSIONS" dated February 15, 2004 consisting
   Of seven slides bearing Bates Nos. RJW01001171 -
   RJW01001177
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0007
   PROCEEDINGS --
2
            THE VIDEOGRAPHER: This is the
   Video Operator speaking, Richard Bley, of
4
   LegalLink Action Video located at 420 Lexington
5
   Avenue, New York, New York.
6
            Today's date is February 19th,
7
   2007. The time on the record is 10:52 a.m.
8
            We are in a conference room in The
9
   Hague, Netherlands to take the videotape
   deposition of Anton Barendregt in the matter of In
11
    Re: Royal Dutch/Shell Transport Securities
12
   litigation in the United States District Court for
    the District of New Jersey, Civil Action Number
   04-3749 (JAP), consolidated cases before Honorable
15
   Joel A. Pisano.
16
             Will counsel please introduce
17
    themselves?
18
             MR. HABER: Jeffrey Haber,
19
   Bernstein, Liebhard & Lifshitz on behalf of lead
20
    Plaintiff, Peter M. Wood and The Class.
21
             MS. COHEN: Rebecca Cohen,
```

- MR. WARE: David Ware, Debevoise &
- 21 Plimpton, LLP on behalf of Royal Dutch/Shell
- 22 Transport and Anton Barendregt.

- 1 MR. EADIE: James Eadie of
- Blackstone Chambers, UK counsel for Mr.
- 3 Barendregt.
- 4 MR. WEED: Earl Weed, in-house for
- Shell.
- 6 MR. TUTTLE: Jonathan Tuttle,
- Debevoise & Plimpton LLP on behalf of Shell
- 8 Defendants and the witness here today.
- 9 MR. BEST: Stephen Best, LeBoeuf,
- 10 Lamb, Greene & McRae LLP, Washington D.C. on
- 11 behalf of Mr. Barendregt in his individual
- 12 capacity.
- 13 THE VIDEOGRAPHER: Can we swear the
- 14 witness?
- 15 ANTON BARENDREGT.
- 16 Called as a Witness by counsel for the Plaintiffs,
- 17 after being duly sworn, testified as follows:
- 18 EXAMINATION BY MR. HABER

I don't do that and let you finish your answer

- and production that there was a lack of tools to
- store the large amount of data that was coming in 16
- 17 from various parts of the operation, from well
- 18 logs and all the way to production data.
- 19 Q. Where did you go after this 20 position?
- 21 Α. I was transferred to Brunei for
- 22 about a year and-a-half until the end of 1972,

- where I was made in charge of the conversion of
- all computer programs from the 19 -- from the
- previous ICL computer to the new IBM 360 computer
- 4 that they had just purchased.
- 5 Did you have a title while you were Q.
- in Brunei? 6
- 7 Α. I believe it was Team Leader,
- computer conversion.
- So you were there from around 1971 Q.

Dutch exploration and production operating arm for 4 Shell. 5 Q. And what made you decide on this career change?

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- 4 So when you got assigned to NAM, that's when you had -- in the initial period you were given the training?
- 7 Yes. I had to join classes and of course I had to fit the schedule of these classes.
- 9 There wasn't an individual training scheme set up.
- I had to join these classes, but they started
- 11 almost within the first week that I joined NAM in
- 12 Assen.

- 13 Q. In total, how long was the training 14 courses that you had taken?
- 15 A. Difficult to say. All I can say is
- that the standard set of training courses that new 17 graduates take typically take about three months.
- So I guess since mine was prepared at fairly late 18
- 19 notice, I had to join the classes that still had
- 20 time available.
- 21 So I didn't get them as one bunch,
- 22 but I got them with intervals. But all in all, 0019
- 1 they must have added up to those three months.
- 2 Did any of this training course
- work include reserves reporting requirements?

- your assignment in Malasia?
- 5 I was Reservoir Engineer for the new gas province that had been discovered and that 6
- was being prepared for development in Central
- Luconia Gas Province.
- 9 And later on, I was made -- I
- 10 became in charge of the -- of a group of reservoir
- engineers consisting of three reservoir engineers 11
- responsible for oil and gas fields in the southern
- South China Sea offshore fields. And that
- 14 included the Central Luconia fields but also some
- 15 smaller oil fields nearby.
- 16 Did you have any responsibility for
- 17 the estimation of Proved Reserves in this
- 18 position?
- 19 A. Yes, I did.
- 20 Q. Can you discuss a little bit what
- 21 that entailed?
- 22 A. The gas fields were, like I said, 0021

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The way I interpreted your question

was did we report Proved Reserves in those days in

the days in Assen? And the answer is yes, we did.

Shell had developed in the early

17

18

19

6 reserves.

This was done on the basis of probabilistic reserves, and that was adequately --9 that was extensively dealt with in the reservoir 10 engineering courses that I followed.

So I was used to reporting Proved 11 12 Reserves already straight from my first month in 13 my assignment in Assen.

- 14 When you got to Malaysia, were you 15 given any course work with regard to the SEC rule 16 on reporting Proved Reserves?
- 17 Not course work as such. But when 18 the new guidance was introduced, I believe I am 19 reaching back into the early recesses of my brain 20 now. But I believe that it took sometime, a few months if not a year, before it actually was
- 22 filtered down from The Hague.

0024

7

- 1 The first dealings, when the
- request by the SEC, the first dealings were done
- 3 in The Hague. And they were then ultimately
- translated into instructions, coming down from The
- 5 Hague to the operating companies, how to report
- Proved Reserves. 6
- 7 Were these instructions embodied in guidelines that were created in The Hague and disseminated to the various operating units?
- 10 There must have been some sort of 11 document, but I honestly can't remember in what 12 form that took.
- 13 Other than the instructions that came down from The Hague, did you have any 15 training or course work concerning the SEC requirements? 16
- 17 A. No. I think at this stage, it's

- 18 fully in line to the new SEC definitions.
- 19 What was the basis of your
- 20 understanding that there was this contact between
- 21 The Hague central office and the SEC?
- 22 A. Statements made by central office.

- There must have been some remarks made in the
- announcing Telexes that were sent out to the
- 3 operating companies along the lines, and you found
- this repeated, because since -- and I had some
- 5 various assignments in the central office and you
- found these understandings repeated to you. 6
 - So it was just, if you like,
- general accepted wisdom within Shell and within
- the professional E&P community that this agreement
- 10 had been reached with the SEC and that Shell was
- essentially following their own previous 11
- 12 guideline.
- 13 Q. And this, for purposes of
- timeframe, is sometime after 1978 --

in terms of your CV, but you became the Group

Reserves Auditor.

are large.

taken into production.

But what one tended to see in practice is that a proved and expectation reserves estimate was made for a field, a field would be

MR. TUTTLE: Objection to form.

MR. BEST: Same objection.

22

2

0034

Foundation.

Does that relate to expectation

Not strictly speaking, but in

practice, yes. P50 is in fact the point at which

the value is as likely to be exceeded or to be -to be turning out to be less than that particular

17

18

19

20

21

reserves?

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1 value.

0036

2 And for a symmetrical

3 distribution -- we are talking technicalities now,

4 before the symmetrical distribution, they are one

5 and the same. But if they are not a symmetrical

6 distribution, they are different, but not a lot.

Q. Now, in your earlier answer, you

referred to a recommendation regarding mature

9 fields.

7

10

15

And what you said was, "therefore

- 11 the recommendation was made that those mature
- 12 fields, we can move towards what is called a
- 13 deterministic determination."
- 14 A. Yes.
 - Q. Who made the recommendation?
- 16 A. It was done by a value assurance
- 17 team, I believe was the name. I am not 100
- 18 percent sure whether that was the name. But
- 19 anyway, there was a team setup in 1997 after the
- 20 comparison with the Exxon fields to try and see
- 21 whether they could -- whether Shell should come up
- with new reserves, guidelines in this respect.

0037

7

8

13

- 1 And that team made the
- 2 recommendation in 1998, and it was then
- 3 implemented in the Shell reserves guidelines at
- 4 the end of 1998.
- 5 Q. Now, this team, have you heard a
- 6 team referred to as a Value Creation Team?
 - A. That's the one, yes. Yes.
 - Q. And do you recall there being a
- 9 Value Creation Team whose purpose was to review
- 10 hydrocarbon resource maturation?
- 11 A. Yes.
- Q. Were you a member of that team?
 - A. No, I was not. I was at that time
- 14 development manager in Lowestoft in charge of the
- 15 southern North Sea UK gas fields.
- 16 Q. That would be part of Shell Expro?
- 17 A. Yes.
 - Q. At the time the Value Creation Team
- 9 was created, were you aware of its creation?

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what I remember is that at that time -- at that

thinking of, say, introducing a new way of

time the group had already formed its opinion that

seeing the comparison with Exxon, and they were

14

15

- A. I expect you want me to answer the
- 21 question who was Mr. Dijkgraf at the time?
- Q. Correct.

- 1 A. I believe he was at that time in
- 2 charge of Shell International E&P new ventures. I
- 3 believe it was called SIPV, something like that.
- 4 And one of his responsibilities was to have
- 5 reporting to him a section that was in charge of
- 6 what was called group reporting, which included
- 7 reserves reporting externally and internally, as a
- 8 matter of fact.
- 9 Q. Do you know if Mr. Dijkgraf had any
- 10 involvement in the creation of the guideline
- 11 concerning resource maturation?
- 12 A. The short answer is I don't know.
- 13 I wasn't there. I don't know precisely how it was

13 BY MR. HABER:

14 We have just handed what we have

15 just marked as Barendregt Exhibit 1. It's a

multipage document that says as a subject, if you

will, at the top of the page it says, "Creating 17

18 Value Through Entrepreneurial Management of

19 Hydrocarbon Resource Volumes."

20 And then underneath it, there is a

Shell logo, and it says, "Volumes to Value." 21

22 There are two Bates ranges, the

0043

3

5

9

first is V00101293 through V00101317, and the

second range is GUI 000398 to GUI 000422.

Mr. Barendregt, have you seen this

document before today?

I must have, although I don't Α.

specifically remember. 6

7 Do you recognize this document as Q.

8 -- well, withdrawn.

What do you recognize this document

10 to be?

- 17
- 19
- 20
- 0045
- process at the end of the year when every company
- has to put together its estimates of produceable
- 3 reserves and report these to the center. It's an
- activity that peaks or it used to peak, at least,
- 5 in those days in the month of January.
- When you say produceable reserves, 6 are you referring to Proved Reserves for external

- 7 any contact would have been up in Aberdeen.
- 8 Q. I was just referring to your prior
- 9 answer where you said, "I was aware of KPMG at
- 10 that time sitting where I was in Lowestoft."
- And I was just inquiring, and what
- 12 I wanted to know is whether or not you were aware
- 13 of it?
- 14 A. Well, yes. I mean, it's not as if
- 15 we talked to each other and we have heard of KPMG.
- 16 Q. No. No. I just wanted to explain
- 17 to you what I was following from that inquiring
- 18 whether or not your knowledge came from working
- 19 with KPMG while you were in Lowestoft?
 - A. The short answer is no.
 - Q. Okay. Now, again, with regard to
- 22 Exhibit 1, do you know if PriceWaterhouseCoopers,
- 0047

- 1 anyone from that organization, had reviewed this
- 2 document?
- 3 A. I don't.
- 4 MR. ADLER: Objection. Asked and

- Q. Do you recall the sum and substance
- 21 of what was discussed?
- A. Again, the short answer must be no.

- 1 I know that these issues must at some stage have
- 2 led to either a question or a remark from their
- 3 side. But I cannot remember it being a -- an item
- 4 for say prolonged discussion. There might have
- 5 been a clarifying question from the side of KPMG
- 6 that I would have answered. But it doesn't stand
- 7 out in my memory as an issue that we debated at
- 8 length, far from it.
- 9 Q. When the guidelines were changed to
- 10 implement the recommendations, did it have any
- 11 impact on the amount of reserves that Shell
- 12 reported in the following year?
- 13 A. Yes, it did.
- MR. TUTTLE: Objection to form.
- 15 Foundation.
- MR. BEST: Same objection.
- 17 BY MR. HABER:
 - Q. And how -- how did the changes to
- 19 the guidelines impact on reported reserves?
- A. They tended to increase the
- 21 reserves in the mature fields pretty much as had
- been the expectation when the new guidelines were 0049
- 1 issued.

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15 estimates. 16 I would prepare a report which KPMG 17 and PriceWaterhouseCoopers did receive, and I 18 would prepare a presentation that they attended to 19 and at which they could ask as many questions as 20 they liked. 21

In the report that you prepared, is Q.

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- MR. HABER: When he first started.
- 11 MR. TUTTLE: Okay.
- MR. HABER: Let me rephrase it so
- 13 it's clear.
- Q. When you first started as Group
- 15 Reserves Auditor in 1999, did you perform an
- 16 analysis of the guideline changes in 1998 to
- 17 determine whether those changes complied with Rule
- 18 4-10?

I think it is as well to bear in

those mature fields. Of those mature fields and

mind now that the reserves changes or the method changes that were introduced in 1998 related to

13

I am thinking now of a company like SPDC where of course a large volume of restatement

certainly didn't look at details of fields.

10

- Do you recall having any
- 13 discussions with them?
- 14 A. Not specifically, no.
 - Q. Did the issue come up -- withdrawn.
 - Were you involved in a project
- 17 called "Project Rockford?"
- 18 A. Yes.

- 19 Q. What was Project Rockford?
- A. Project Rockford was set up in the
- 21 end of 2003 when it became clear that we were
- 22 heading towards a -- what was amounting to a 0058
- 1 crisis situation regarding our reserves reporting.
- 2 It was set up, I believe, at the
- 3 end of September, maybe early October in 2003
- 4 after we saw first evidence, first real evidence
- 5 emanating from Nigeria that large amounts of
- 6 reserves were likely to be in need of restatement.
- 7 Q. Did you have any involvement in
- 8 Project Rockford?
- 9 A. Yes, I was. The name Project

- 13 specifically recall any discussions. If there had
- 14 been, then my answer would have been pretty much
- 15 on the lines of what I just told you, that the
- 16 short answer to your question would have been no.
- MR. TUTTLE: Jeff, we have been
- 18 going a little over an hour. Do you want to take
- 19 a couple of minutes?
- 20 BY MR. HABER:
- Q. I just want to be clear in the
- 22 record with regard to the record. Is your answer 0060
- 1 no, you have no recollection of the guideline
- 2 changes being discussed during Rockford? Or no,
- 3 they were not discussed?
- 4 A. When I said "no" just now, my final
- 5 no, what I meant is that if anybody had asked me a
- 6 question: Do you see the 1998 reserves changes as

would be useful for them to ask for any

PriceWaterhouseCoopers, and KPMG felt that it

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4 clarifications from these reports, if they had any

5 questions.

6

11

And in addition, they wanted to

7 touch base with myself, Remco Aalbers, and his

8 successors, to talk about any new developments,

9 any major reserves changes that might be coming

10 about, that sort of thing.

- Q. Were these meetings scheduled?
- 12 A. In a sense that they were noted in
- 13 our diaries, yes.
- 14 Q. I guess what I am asking: Were
- 15 they scheduled for certain days throughout the
- 16 year? For instance, one during the ARPR, one say
- 17 during the summer, one in the fall?
- 18 A. No, not in that sense. Only that
- 19 in the end of the year, during the January period,
- 20 would be and particularly the final one on that
- 21 which was end January or early February, that was
- 22 really the only one that was scheduled in advance.

0063

- 1 Q. So the other three or so, those
- 2 would be more impromptu during the year?
- 3 A. Yes. We would get an E-mail and we
- 4 would fix the date, sort of a weekend, something
- 5 like that.
- 6 Q. Is it your recollection that they
- 7 initiated, KPMG that is, initiated these meetings?
- 8 A. By and large, yes. They took the
- 9 first initiative in getting a date together. It
- 10 wasn't because we didn't want them. It just so
- 11 happened that they initiated at a time that it
- 12 suited them.
- 13 Q. Now, what other type of
- 14 communications did you have with KPMG?
- 15 A. Other than the two types of
- 16 meetings that I mentioned to you, none.
- 17 Q. Do you recall having any E-mail
- 18 communications with KPMG during the year?
- 19 A. Oh, I am sure I must have. Again,
- 20 from what I remember and I don't remember specific
- 21 instances, clarifications of questions.
- Q. What type of questions would you

19 regular liaison.20 And one of the ways that liaison

sizeable program of various studies in relation to

improved oil recovery were being done by at that

time the Shell laboratory in Rijswijk that needed

16

17

- 14 stakeholder in the Oman fields. And yeah, they
- 15 have an interest, and they are paying -- they were
- 16 paying a large amount of the costs of the research
- 17 program and they felt that they needed to be made
- 18 more aware of precisely what the program was about
- 19 and what the results were.
- Q. Now, during your tenure as Group
- Reserves Auditor, do you recall if there were oil
- 22 recovery efforts being conducted in Oman? 0067
- 1 A. I am not quite sure what you mean
- 2 by "oil recovery efforts." If you mean efforts at
- 3 recovering oil, then that's essentially what
- 4 petroleum development Oman was doing all the time.
- 5 So...
- 6 Q. That's a fair point. I was
- 7 referring to the studies similar to the ones that
- 8 you just testified about that you said were being
- 9 conducted out of Rijswijk?
- 10 A. There were always some studies,
- 11 some of them small, some of them slightly bigger,
- 12 but one specific one that stood out was a study
- 13 that was initiated I believe late 2002, early
- 14 2003.
- Q. Who was principally responsible for
- 16 that study?
- 17 A. The Shell laboratory in Rijswijk.

- 17 to pay for the study as well.
- 18 However, it may well be seeing the
- 19 sensitivities of the case vis-a-vis the Oman
- 20 government for whom also this sudden decline was
- 21 also a disappointment, it may well have been that
- 22 Shell may have offered to carry out a study at 0069
- 1 their cost, but I don't know. I have no
- 2 indications, nor have I ever asked questions in
- 3 that direction.
- 4 Q. Now, going back to your position at
- 5 The Hague, how long were you there?
- 6 MR. TUTTLE: Why don't you start in
- 7 1981.
- 8 MR. HABER: That's right. I was
- 9 just going to make that clear. Thank you.
- THE WITNESS: That was until May
- 11 1985 when I was transferred to become head
- 12 Reservoir Engineer with Maersk Oil and Gas in
- 13 Denmark.
- 14 Q. And what was your position in

- 13 reserve reporting in this position?
- 14 A. No. Well, sorry. I am jumping
- 15 ahead. By your asking the question, I assumed
- 16 external reserves reporting, and there the answer
- 17 is no. But certainly we were responsible for
- 18 reporting reserves for the center.
- 19 Q. As part of the ARPR?
- A. Yes.
- Q. Now, how long did you remain in
- 22 this position?

- 1 A. Until end December 1987.
- Q. Where did you go next?
- 3 A. I went to Brunei to be the head of
- 4 the department at reservoir engineering.
- 5 Q. What were your responsibilities as
- 6 head of reservoir engineering?
- 7 A. Responsibilities was to carry out
- 8 studies in the Brunei fields and reservoirs, to
- 9 produce forecasts, and to contribute or to develop
- 10 development plans -- to produce development plans
- 11 specifically about proposals for the Brunei

- 11 increasingly large number of reservoirs, and
- 12 particularly -- but even fields in some cases,
- 13 where we had negative reserves, and in particular
- 14 negative Proved Reserves.
- 15 Now, that may sound strange to
- 16 somebody who is not closely involved in the
- 17 business. But what it means is that the way the
- reserves were and still are calculated is that you
- 19 have an estimate of what they call an ultimate
- 20 recovery, and that can be both on an expectation
- 21 basis or on a proven basis.
- 22 You have an estimation of the
- 0073
- ultimate recovery in the fields, and from that you
- deduct the cumulative production that has been
- taken away out of that particular part of the
- 4 field.
- 5 And it was found that if the books
- weren't maintained -- weren't maintained or were
- kept in line with continuing production, that in
- quite a large number of reservoirs, cumulative

- production in fact will overtake even the
- 10 expectation reserves estimates, and that of course
- 11 is wrong.
- 12 It's clear that you have produced
- 13 more on those fields than what you carry on the
- books, which is clear an indication that the books
- 15 are wrong.
- Now, the handicap that we had in
- 17 those days is that there were about 3,000
- 18 reservoirs, some of them small but some of them
- 19 big, but particularly the large amount of small
- 20 reservoirs were very difficult to study for a
- 21 number of reasons. And I will have to make it
- 22 technical now, for a number of reasons.

- 1 These reservoirs you would have to
- 2 think of as stratified. Oil reservoirs tend to be
- 3 in stratified, essentially sealed from each other.
- 4 These reservoirs are then caught through in a
- 5 phenomenon called fault, which is a major shift in
- the earth structure and therefore they are also
- 7 laterally, not only vertically, but laterally they
- 8 are also sealed from other reservoirs.
- 9 In some cases they are sealed, in
- 10 other cases they are not sealed. You don't know.
- 11 In fact you don't know until you actually start
- 12 putting wells on either side of the fault. And
- 13 you are lucky if you see the fault in seismic, and
- 14 there is either pressure communication or there
- 15 isn't. That's fine if you have five reservoirs;
- 16 but if you have 3,000, it's a major task, believe
- 17 me.
- Particularly because in those days,
- 19 the tools that we had in simulating and trying to
- 20 understand the reservoir performance were fairly
- 21 crude still. They were improving but they were
- 22 still fairly crude, particularly the setting up of 0075
- 1 what we later called the geological model of the
- 2 model describing the precise 3D dimensions of the
- 3 reservoirs, and the possible relation with each
- 4 other, the possible pressure communication with
- 5 each other. The tools there were primitive.

So on that basis, a reasonably

sound estimate was made of those -- of those reserves on a bottom line basis, lastly on a

22

two-thirds were justified or had in fact already

a legacy from a previous period -- about

and it hadn't even finished when I left in 1992.

is that of those reserves -- which by that time we

started to call legacy reserves, because they were

What had become clear by that time

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18

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20

21

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1 been in those years, because production of course

2 continued, had in fact been taken or overtaken by

3 production.

0079

4

8

About two-thirds of those

5 originally booked volumes were reasonable, and

6 about one-third had to be debooked, and they were

debooked after we had done the proper studies.

- Q. Do you recall when the reserves
- 9 were debooked?
- 10 A. As when the studies of when those
- 11 particular reservoirs had occurred. So you could
- 12 see a gradual reduction in ultimate recovery for
- 13 these reservoirs over the years starting in
- 14 1987/88, over the years. And it continued, but at
- 15 a slower pace, because obviously what we addressed
- 16 first were the larger fields and the larger
- 17 reservoirs, so the corrections were larger
- 18 initially, and they were gradually getting smaller
- 19 in the later years after I had left.
- Q. Do you recall how much volume that
- 21 one-third reserves that you just spoke about
- 22 represented?

0080

13

- 1 A. Not off-hand. The only figure that
- 2 sticks in my mind was a figure of 600 million
- 3 barrels reserves being added to expectation
- 4 reserves. Now, how much is translated to proven
- 5 reserves, I don't remember.
- 6 I can expect that it would be
- 7 something on the order of 400 million barrels or
- something. So that was the total figure that we
- 9 started with.
- 10 Q. When this calculation that you just
- 11 talked about was performed, 600 million barrels
- 12 were added to expectation?
 - A. To proven.
 - Q. To proven?
 MR. TUTTLE: Wait, you said 600
- MR. TUTTLE: Wait, you said 600 million were added to expectation or proven.
- 17 THE WITNESS: 600 million barrels
- 18 were added to expectation, as I remember it. And
- 19 I can't remember the exact figure, but I would

- Q. Do you recall what you had found?
- 17 I had found that considerable Α.
- 18 progress had been made. This was of course ten
- years after I had left from my previous assignment
- 20 there in Brunei.
- 21 Considerable progress had been
- 22 made, in particular the issue of the legacy 0082
- reserves, and particularly caused by the use of a
- new tool that took care of much more realistic
- geological modelling, and that as a result, most
- of these legacy reserves had been either matured
- in actual supported reserves or have been taken
- off the books. There was only a very small
- 7 fraction of that left.
- 8 Q. When you say a small fraction, do
- you recall the volume? 9
 - Not off-hand. Ten, 20,000,000
- 11 barrels, something like that, I honestly can't
- 12 remember the precise figure.
- 13 Do you recall when you conducted Q.
- 14 the audit?

- 15 It was combined with a similar Α.
- audit in Sarawak across the border, and I believe

17 in late 2003 when it -- well, when the imminent

18 reserves changes, reserves recategorizations

19 became clear.

Q. And what was it about these reserve

changes that caused you to re-think seeking

22 assistance?

- 1 A. Well, we are jumping ahead, you
- 2 know, and I am sure that we are going to cover a
- 3 lot of ground between those two events with my
- 4 earlier stay in Brunei and later.
- 5 But in essence, what has happened
- 6 during the last two, three years of my tenure as
- 7 Group Reserves Auditor was that the SEC had come
- 8 up with additional guidance, which in turn led us
- 9 to a gradual tightening of reserves and to
- 10 additional introduction of criteria which hitherto
- 11 hadn't been included in the reserves guidelines
- 12 and therefore hitherto hadn't been included in my
- 13 estimates -- in my audits.

10

2003.

more people. And that's what I made in the

recommendation in my final report at the end of

And of course, since then, my

Had you heard anything with regard

to staffing of an internal audit team at other of

5

6

in the position, yes.

comparison of numbers that may have been heard, and the 10, 12 people that I mentioned to you, it

A. There was only one audit that I can 0092

Characterization of the testimony.

THE WITNESS:

20

21

1 remember that was specifically called a process

- audit, and that was the one carried out for
- 3 Nigeria, for SPDC Nigeria in 2003. All the others
- 4 were regular audits.
- 5 I use the word process audit, just
- 6 now in describing them, in the sense that -- and
- 7 what I meant by that is that I didn't actually go
- 8 and check with the team.
- 9 With the field teams that I would
- 10 gather around the table, I didn't actually go and
- 11 check, okay, which wells did you drill, what sort
- 12 of porosities did you see there, and how did you
- 13 translate those porosities into your assumptions
- 14 for your reservoir simulation models.
- That is the sort of detail that I
- 16 would expect the supervisor of those engineers
- 17 would do. Mine would be at a higher level, saying
- 18 okay, how many wells have you got, show me a
- 19 typical cross-section of the reservoir simulation,
- 20 how you applied it, how did you calculate the
- 21 average porosities from your averages in the
- 22 wells. Do you take any -- say any preference to 0093
- 1 any particular well, that sort of thing.
- 2 So my review would be on a higher
 - level than the detailed review that I would expect
- 4 the supervisor to carry out.
- 5 Q. Now --
- 6 A. And that's what I mean by process.
- 7 I looked at the process in which they came up with
- 8 the reserves estimates. And from that space, if I
- 9 like the process, then I had no reason to doubt
- 10 the validity of the reserves estimate that came
- 11 out of that work.

- Q. And the staff and engineers that
- 13 you just mentioned, these are staff and engineers
- 14 who are working in the operating unit?
 - A. Correct, yes.
- 16 Q. And earlier, you had said that --
- 17 you had said, "with my experience and with the
- 18 trust that I know I had and the trust that I
- 19 placed also with the staff," in conducting your
- 20 audits. Did you ever come to, after the fact,
- 21 question whether that trust was properly placed?

Good afternoon, Mr. Barendregt.

at 1:40 from 12:59. Go ahead.

Good afternoon.

BY MR. HABER:

Q.

Α.

16

17

- 20 before or something like that.
- 21 Even then, people that were new
- were, I always found, were certainly sufficiently 0097
- 1 knowledgeable about their subject to be able to
- 2 contribute to the conversation if it came their
- 3 way.
- 4 Q. Now, going back to the Brunei audit
- 5 that you had conducted, I am going to ask you a
- couple of questions about the audit report that
- 7 you had prepared. Actually, first on, I am going
- 8 to ask you about a draft report.
- 9 (Barendregt Exhibit No. 2 was
- 10 marked for identification)
- We are marking as Barendregt
- 12 Exhibit 2 a draft note which is dated May 5, 2002.
- 13 It's a report, and the title of the report is "SEC
- 14 Proved Reserves Audit, Brunei Shell Petroleum SDN
- 15 BHD 29 April-3 May, 2002".

So these reports would typically

receive small corrections here and there, mostly

and three weeks after the end of my audit,

of facts that I had got wrong. And ones that had been done and they would be typically between two

8

9

10

5 large in general, no, I would rarely find cause
6 for changing my opinion.
7 Q. With regard to Shell Norway, do you
8 recall when this event occurred?
9 A. 2000. The year 2000.

information learned during the audit?

your predecessor?

in comments to each of these criteria where they had not be good. I also allowed it to score the

21

- 3 attachments, a moment ago you mentioned a
- 4 spreadsheet.
- 5 And I think you might be referring
- 6 to one of the attachments in this document?
- 7 A. Yes. Attachment 3.
- 8 Q. Now, in terms of verifying, let's
- 9 say for argument's sake, technical maturity, and
- 10 in answering the questions that are listed in the
- 11 left-hand column, did you make your comments which
- 12 are in the right column based on information that
- 13 was provided to you by staff, in this case, Brunei
- 14 staff?
- 15 A. Yes.
- Q. Did you do anything independent of
- 17 what was communicated to you to verify the
- 18 information that was being communicated to you?
- 19 MR. TUTTLE: Object to form.
- 20 BY MR. HABER:

I am looking at the second sentence

of number 6. It says, "Any incomplete hydrocarbon

column penetrations are thus also addressed

14

15

16

BY MR. HABER:

some oil underneath that all the way down to the

addressed more specifically in the guidelines.

That was in the reaction to a similar instance

And this is one of the areas that I

had a fairly strong hand in revising the

7

8

9

11

guidelines.

opinion, as you well have seen: First, these are

mature fields. I already made that point on

everal occasions.

And in mature fields in 1998, we

11 had the recommendation that rather than do a

- 12 probabilistic reserves estimate, we would do a
- 13 deterministic estimate, i.e. based on a specific
- 14 realization, as we called it, of the reservoir
- 15 model and determine that against the performance
- 16 of that reservoir, i.e., at the fluid level -- the
- 17 fluid production, the gas production, the oil
- 18 production, and water production; and thereby
- 19 compose a picture, a historical picture trying to
- 20 match the performance against the model results.
- 21 And this is entirely different from
- 22 the probabilistic reserves estimating that had 0117
- 1 been used before '98 in mature fields.
- 2 And what I am saying is just simply
- 3 repeating that particular -- that particular
- 4 premise.
- 5 Then the other two points: They
- 6 are rather technical. What it says is that if you
- 7 have various reservoirs in one field, and you add
- 8 these up probabilistically, then it is very
- 9 important whether you assume the individual
- 10 reservoirs and the assessment of the recovery in
- 11 the individual reservoirs is independent of that
- 12 of the other reservoirs.
- Now, if it's independent, that
- 14 means that the total reserves estimate becomes
- 15 narrower, i.e. the Proved Reserves, and the high
- 16 estimate of reserves become closer and therefore
- 17 closer to the expectation reserves.
- 18 That is -- yeah. You will have to
- 19 take it from me, but that's a technical fact.
- 20 BY MR. HABER:
- Q. That's one of the reasons that I
- 22 asked if you could sort of put the technical into 0118
- 1 layman's terms so I can understand it.
- 2 A. Well, in order to do that, I would
- 3 have to explain to you, and I am more than happy
- 4 to explain to you a method what the Monte Carlo
- 5 analysis is.

That is the case where you assume

chances of estimates on the high side.

that these reservoirs are independent of each

22

7 dependent.
8 What do we mean by that? It's that
9 if you have a low outcome in one reservoir, then
10 it's likely that your misguess, your -- say your

11 estimate has been caused by a particular

12 assumption that is -- may not be clear at that

13 time, but that also affected all of the other

4 reservoirs because you have applied the same

5 method of calculation to each of these bell-shaped

16 curves.

2

3

5

7

Now, that means that you really
have to be more careful that if you go through the
process again of taking one realization, one value
out of the bell-shaped curve for each reservoir
and you come out with a low one, then you must
also take a low one from the other reservoirs
0121

1 because there is some dependence, yeah?

And that means -- as I hope you can see, means that the total bell shape of all the reservoirs together will be wider, because you will more get a situation of low values being added to low values and et cetera, and on the high side the same.

And therefore, if your reservoirs

9 are dependent, and to some extent that will always

10 be the case if it's in the same field, and they

11 are say modeled by the same method, you have to be

12 careful, because the effects might be that your

13 total range is too parrow, therefore your proved

13 total range is too narrow, therefore your proved

14 is too close to your expectation and effectively

15 is too high. And that's what I am saying.

Q. Okay. I appreciate it. Thank you.

17 If you turn to the final note which is Exhibit 3, 18 I would like you to take a look at number 6 in

19 attachment -- I believe it's attachment 1, on page

20 61607?

21 MR. BEST: I am sorry. Did you say

22 a paragraph?

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Case 3:04-cv-00374-JAP-JJH Document 341-7 0122 1 MR. HABER: Yes. Paragraph 6. I am sorry. 3 (Pause) 4 My question, you will see there, the words "economically robust" are underscored 6 there. 7 What did you mean by that? Q. 8 A. Shell did and still do screen their projects. And by "their projects," I mean 10 activities which generate a certain amount of oil 11 or gas activities like drilling a well or 12 developing a whole field, such projects will be 13 screened economically. 14 And one of the parameters that 15 would be used would be what the Shell called a 16 screening value oil price, which around this period was something in the order of 14 or 16 18 dollars a barrel, so conservative even for those 19 days. 20 "Economically robust" meant that 21 the result was economical for a range of parameters, for a range, for instance, for the 0123 1 typically for the proven reserves, the expectation reserves, et cetera. 3 Economically robust was one of the conditions that was introduced in -- back in 1993 5 in the reserve guidelines in 1993. The other one was technically robust. 7 And okay. That's meant -- that is 8 what was meant with economically robust. 9 Q. And why was it that undeveloped 10 reserves in a number of fields and reservoirs needed to be economically robust in order to be 11

12 certain of their future development?

13 This is five years ago and I don't A. remember the individual field instances in -- on 15 which this remark was based.

16 But I can only speculate that a 17 number of these activities may have been 18 associated with the legacy reserves, legacy 19 reserves which were identified as reserves but not

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- 10 A. Mostly, yes. Not always, but
- mostly. It depended on the time squeeze that I 11
- 12 was in. Sometimes I was in more of a time squeeze
- 13 than other times.
- 14 When you did have the time to make
- 15 the presentations, did you prepare Powerpoints or
- view graphs for the staff to review?

1176. And let me identify this document for the

- 17 about discussing a clean sweep of the legacy
- 18 reserves in Brunei?
- 19 A. Not totally, but I am getting
- 20 there.
- Q. Do you need a little more time to
- 22 get there?
- 0129

- A. No. No. Fire off the questions.
- Q. Well, I am interested in the last
- 3 bullet point on slide 6, which is Bates numbered
- 4 1176. You say, "Recommend to make the 'clean
- 5 sweep' when we upgrade proved developed reserves."
- 6 Do you recall why you were making
- 7 that recommendation?
- 8 A. As far as I recall, no. I would
- 9 have to reconstruct it from what it is that I have
- 10 said here.

it was appropriate for you to be revising the

MR. TUTTLE: Objection. Calls for

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0135 1

guidelines?

- 4 Q. Did anyone communicate from EP to 5 you whether it was appropriate for the Group
- 6 Reserves Auditor to be revising the guidelines?
- 7 A. Nobody present in The Hague at the
- 8 time that I remember. The one who was very vocal about it was Remco Aalbers, who I occasionally got
- 10 in touch with. He was by that time in his new job
- 11 up in Assen, and he made it clear to me that that
- 12 would have never happened under his reign, and I
- 13 agreed with him.
- But there it was. I felt that new
- 15 guidelines, new good quality guidelines needed to
- 16 be issued. And if there was nobody else around
- 17 who could do them, then I would be prepared to do
- 18 them. And unless somebody actually stopped me
- 19 doing it, I just went ahead and did it.
- Q. Did you consider at the time
- 21 whether it was a conflict for the Group Reserves
 - 2 Auditor to be revising Shell's guidelines?
- 0136
- 1 A. Not really, no. No.
- 2 MR. HABER: All right. This is a
- 3 good time to break.
- 4 THE WITNESS: Okay.
- 5 THE VIDEOGRAPHER: Going off the
- 6 record at 2:37.
- 7 (Short recess taken)
- 8 THE VIDEOGRAPHER: Returning to the
- 9 record at 2:52 from 2:37.
- 10 BY MR. HABER:
- 11 Q. Mr. Barendregt, I am going to jump
- 12 back to your CV again. I believe we were in
- 13 Brunei, which sort of led us through this whole
- 14 discussion.

- I believe you said that you were
- 16 the head Reservoir Engineer from '87 to sometime
- 17 in the latter half of 1992 --
- 18 A. Correct.
- 19 Q. -- is that correct?
 - A. Correct. Yes. That's correct.
- Q. Where did you go after Brunei?

A. After Brunei, I went to The Hague

0137

22

- 1 where I became one of the reservoir engineering
- 2 consultants, and this particular area of
- 3 responsibility being Southeast Asia and Africa,
- 4 below the sub Sahara Africa as it was called.
- 5 Q. And what were you responsible for
- 6 doing as a reservoir engineering consultant?
 7 A. I was responsible for reviewing
- 8 plans by the various operating companies, for
- 9 reviewing particular projects.
- And that would often mean me going
- 11 out together with a number of colleagues from the
- 12 other petroleum engineering disciplines like
- 13 production, geology, petrophysics, et cetera, to
- 14 operating companies if they had a particularly
- 15 difficult project on their books.
- And we would go out and review
- 17 those plans, make recommendations regarding any
- 18 changes to those plans as appropriate, and also
- 19 advise Shell central office management about the
- 20 soundness of the projects that would come out of
- 21 the operating companies.
- Q. Which operating units fell within 0138
- 1 this category of sub Sahara Africa?
- 2 A. That would be Southeast Asia, so
- 3 Malaysia, Brunei, Philippines, Australia, New
- 4 Zealand, and then Africa, sub Sahara Africa would
- 5 be Nigeria, Gabon, and a very, very high tiny
- 6 holding of Congo in Zaire.
- 7 I am not sure whether that's a
- 8 comprehensive list, but those are the major
- 9 players.
- 10 Q. How long were you a consultant in
- 11 this capacity?
 - A. That was until the end of 1996 when
- 13 I was transferred to Lowestoft, that we mentioned
- 14 earlier.

- 15 Q. And what were your responsibilities
- 16 at Lowestoft?
- 17 A. I was a development manager there.
- 18 And that effectively equates to being the head of

- they were wells with what we call sidetracks.
- 22 You go in through one whole in the 0140

surface, and then somewhere in the subsurface it 1

- splits into 2, 3, 4, 5, 6, 7, different bore
- 3 holes, each penetrating different parts of
- reservoir, so it would describe that.
- 5 So it would describe the setting up
- of a model which invariably at that time we would
- set up in order to assess the future performance
- 8 of that field. It would describe the assumptions
- that went into that model. It would include a
- comparison with original data, particularly log 10
- 11 data from the wells.
- 12 And it would finally include an
- 13 economic evaluation of the project or the set of
- 14 activities that was being proposed.
- 15 What did the economic evaluation Q.

- 17 A. It would be based on a forecast
- 18 which was going to be generated by people in my
- 19 jurisdiction, under my -- in my group. And it
- 20 would -- that forecast would be translated with
- 21 certain assumptions regarding future oil price or
- 22 gas price that would be related to a cash flow.
- 0141
- 1 And that cash flow would be set
- 2 against the cash flow, the initial development
- 3 cash flow, i.e., the costs of building the
- 4 platform and installing the platform, drilling the
- 5 wells.

- 6 And that will give a certain
- monetary forecast. And that forecast will be
- 8 evaluated to see whether it fulfilled the economic
- 9 criteria that Shell was hitting against.
- 10 Q. Now, the development plan that you
- 11 just described, is that different from a field
- 12 development plan or is that one and the same?
 - A. No. It's one and the same, yes.
- 14 Q. Now, is it necessary to have field
- 15 development plans in place before an operating
- 16 unit can book reserves, Proved Reserves that is?
- 17 A. Not before 2003, according to our 18 guidelines.
- 19 Q. And when you say not before 2003,
- 20 are you referring to guideline revisions in 2003
- 21 or after Project Rockford?
- A. They appeared both at the same 0142
- 1 time.
- Q. When were the guidelines revised
- 3 and disseminated in 2003?
- 4 A. I can't remember off-hand, but it
- 5 must have been again in the period October
- 6 November, thereabouts.
- Q. Now, any of the information that
- 8 you just mentioned that goes into development
- 9 plan, are these items considered in determining
- 10 technical and commercial maturity?
- 11 MR. TUTTLE: Objection to form.
- 12 Foundation.

me? And if not, then I'll be willing to take

early retirement."

- 2 I was interested in the job, so I
- 3 specifically inquired about me taking that job.
- 4 And if that wasn't an option, then what else did
- 5 he have available for me?
- 6 Q. And what did Mr. Bouman say to you?

Q. This was in early December of 1999?

informed that I could indeed have the job.

3 A. Yes. Yes. 1998, I beg your

0148

- 1 over the previous 32, 33 years, and it was by all
- accounts a good pension that I could expect to
- 3 live on without any problem.
- 4 Q. Now, when you became the Group
- Reserves Auditor, was this a full-time position
- 6 or?
- 7 A. No, it was not.
- 8 Q. It was a part time position?
- 9 A. Yes.
- 10 Q. How many hours were you expected to
- put into the position on a yearly basis? 11
- In the order of 40 to 50 percent of 12 A.
- 13 my time.
- 14 MR. BEST: And when you say your
- 15 time?
- 16 THE WITNESS: Oh, the normal office
- time that one would have available, which is 40
- 18 hours a week times 52 weeks minus the amount of
- 19 holiday. It was something in the order of 1800 --
- 20 yeah. 1800 hours in a year, something like that.
- 21 So divide that by the percentage
- 22 that I told you.

- 1 A. No, effectively not, no. He was 2 too ill.
- Q. Did you have any communication with 4 him before you began concerning what the job
- 5 entailed, what the responsibilities were?
- 6 A. I had a telephone conversation with
 - him. And he sent me -- as a result of that
- 8 telephone conversation, he sent me an E-mail with
- 9 some hints and tips.
- 10 Q. Do you recall the general sum and
- 11 substance of what that E-mail said?
- 12 A. No is the short answer. What I do
- 13 recall that particular E-mail didn't really
- 14 contain information that was totally new to me.
- Because I think it's also useful to
- 16 bear in mind that this job of Group Reserves
- 17 Auditor wasn't new to me in the sense that I knew
- 18 what it was about.
- 19 I had experience in my successive
- 20 positions as Senior Reservoir Engineer and

Rule 4-10, regulation SX?

I think in answering that, I must

understanding that Shell had reached with the SEC

refer you again to the background of the

15

- 19 Q. Do you recall if there were any
- 20 representatives from the SEC at that workshop?
- A. I am fairly certain there were, but
- 22 I can't be sure.

- 1 Q. Do you recall at the time you
- 2 started as Group Reserves Auditor, reviewing any
- 3 articles in journals that were published by the
- 4 SPE concerning SEC reserves reporting
- 5 requirements?
- 6 A. No. Short answer, no. By this, I
- 7 mean no, I can't remember. I may have done, but
- 3 it doesn't stand out in my memory.
- 9 Q. Do you recall reviewing any
- 10 publication that was published by the SPE during
- 11 your membership?
- 12 A. Again there, no. I can't remember.
- Q. Do you recall when you became a
- 14 member of the SPE?

Do you recall at any time, when you

first started as Group Reserves Auditor, comparing

such that it was felt -- already as early as 1978,

It had to be accompanied by a more

that it was felt that it was insufficient to just

send out to the troops.

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DATE

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0164
        IN THE UNITED STATES DISTRICT COURT
1
          DISTRICT OF NEW JERSEY
2
           Civ. No. 04-3749 (JAP)
           Hon. Joel A. Pisano
3
  IN RE ROYAL DUTCH/SHELL )
  TRANSPORT SECURITIES
  LITIGATION
                      )
6
7
         VIDEOTAPED DEPOSITION UPON
8
           ORAL EXAMINATION
              OF
           ANTON BARENDREGT
9
10
             VOLUME II
11
             Taken on:
         Tuesday, 20 February, 2007
12
         Commencing at 10:02 a.m.
13
             Taken at:
14
         The Hague Zurich Tower
            Muzenstraat 89
15
           2511 WB The Hague
            The Netherlands
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17
18
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21
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0165
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   Deponent: Anton Barendregt
   The Videographer: Richard Bly
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   Court Reporter: Frederick Weiss
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       Barendregt Exhibit 5 -
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12 Resource Volume Guidelines Resource
        Classification and Value Realisation" bearing
13 Bates Nos. PER00070810 - PER00070880
14 Barendregt Exhibit 6 -
                                                                                                              219
15 SIEP document entitled "Petroleum
        Resource Volume Guidelines Resource
16 Classification and Value Realisation" dated
        September 2000 bearing Bates Nos.
17 PER00081330 - PER00081360
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18 Barendregt Exhibit 7 -
19 Document marked "Shell Confidential" entitled
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20 Classification and Value Realisation" bearing
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"Note" dated 5 Dec 2000 authored by Anton

6 Barendregt with Attachments 1, 2 and 3 Bearing Bates Nos. RJW00060528 -

period right before you started as Group Reserves

19 A. Yes. I met Egbert Eeftink,

20 E-G-B-E-R-T, E-E-F-T-I-N-K.

Q. And who is Mr. Eeftink?

A. He was at that time one of the

0173

22

6

1 partners of KPMG in the Netherlands.

Q. Do you recall when you met with Mr.

3 Eeftink?

4 A. Not the precise period, but it

would have been during that period in January.

Q. Do you recall the sum and substance

7 of what was discussed during that meeting?

8 A. There were several meetings, and

9 most notably of course the one at the end of

10 January or early February where I would make my

11 report on the process of getting together all

12 these -- all these reserves data.

But before that, I cannot remember

14 precisely when that was or what the subject was.

15 It must have been just general introduction and

16 getting to know each other, those sort of things.

12

on came back being at what they feel was

extortionist rates. So they were very strictly in

control of these contracts. In fact they would

of the department that was doing the internal and 0177

external reporting of reserves and other matters,

I was now reporting to the head of finance, head

of EP Finance and that was Frank Coopman.

In that year, I said that I wanted

to continue one year, but at a higher rate, to

negotiate at a higher rate. I looked around me

and saw indeed the rates, the going rates in the

industry, and I negotiated the higher rate with

8

But I made it clear then, this was

- 17 Yes. I don't know -- don't
- 18 remember the name, no. You are talking now?
- 19 Well, actually, my question really
- 20 is with regard to 2004 when you left?
- 21 Yes. There was a person in charge.
- 22 I forget his name.
- 0179
- 1 Q. Did you have any input into who
- this person who would head the Group Audit
- 3 function would be?
- 4 Α. No. No.
- 5 Q. Do you know if this person is a
- full-time employee of Shell?
- The head of Group Audit certainly 7 A.

function that you just described?

Is there a difference between the

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Reserve Committee function and the Group Audit

powers, so yes. Yes.

1

- 5 believe.
- 6 Now, in terms of reporting, when Ο.
- you first started as Group Reserves Auditor, who
- 8 did you report to?
- 9 To start with, I reported to Wouter
- 10 van Dorp, the name that we mentioned, who was in
- 11 charge of reserves and business reporting,
- 12 particularly in the reporting of the amalgamation
- 13 of financial and production forecasts and the
- like. Remco Aalbers was reporting to the same
- 15 person at that time.
- 16 Now, Mr. Aalbers was the Group Q.
- 17 **Reserves Coordinator?**
- 18 A. Correct, yes.
- 19 And Mr. Van Dorp, he was in EPB,
- 20 which I believe was EP Business Planning?
- 21 I forget what the reference
- 22 indicators were, but it could well be as you said.

1 Did your reporting change over Q.

- 5 succeeded by Aidan McKay. 6 And do you recall when you began 7 reporting to Mr. McKay?
- 8 Not precisely the dates, but it A. must have been somewhere in either late '99 or early 2000, something like that. 10
- 11 And how long did you report to Mr. Q. McKay? 12
- 13 Until he left for the US and he was A. taken over by -- he was succeeded by Jaap Nauta, I believe. 15
- 16 Q. And how long did you report to Mr.
- 17 Nauta?
- 18 A. A year, year and-a-half, something
- like that. I don't know the precise dates in my
- 20 head. The neatest trail is just to go and look
- through my audit reports and then you can pretty
- well see when one took over the year.

- 1 Q. And do you know who succeeded Mr.
- Nauta? 2
- 3 Yes. But I forgot his name. A.
 - Is it Malcolm Harper? Q.
- 5 A. No. No. It was a Dutch man. I
- would have to look in my reports, sorry.
- 7 Now, did you have -- I understand in Shell, it's called a dotted-line report.
- 9 Was there someone who you also
- 10 reported to who wasn't a straight-line person 11 above you?
- 12
 - MR. TUTTLE: Objection to form.
- 13 THE WITNESS:
- 14 Not really, no. These were the A.
 - persons I had to deal with on a day-to-day basis.
- BY MR. HABER: 16
- 17 Other than your annual reports, did
- people in the position that you just identified 18
- 19 for the record, did they require to you file any
- 20 other reports to them identifying the activities
- 21 and conduct of what you had performed throughout

Now, you have mentioned Remco Q. Aalbers and I believe yesterday you mentioned that 17 18 there was a gap after Mr. Aalbers.

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- A. Slightly more at the distance than 0188
- 1 with Remco Aalbers, I would say. We knew each
- 2 other. We had met. In fact, we had even shared
- 3 an office at one stage in the distant past.
- 4 Let's just say that Jan Willem is
- 5 more of a people -- more of a man that keeps
- 6 people at the distance than Remco Aalbers is.
- 7 Q. Who succeeded Mr. Roosch? I am 8 sorry. Who succeeded him?
- 9 A. Oh, who succeeded him? There was,
- 10 after another interval, it was John Pay, who as it
- 11 happens, also started on the 1st of April, I
- 12 believe, in 2003 -- 2002, beg your pardon.
- Q. And what was the level of
- 14 interaction you had with Mr. Pay?
- 15 A. Excellent, yes. Pretty much like I

- 1 would be charged to Remco Aalbers, his unit, i.e.
- to his supervisor.
- 3 What do you mean by "overhead Q. 4 activities"?
- 5 A. Well, for instance, my involvement
- with issuing the new guidelines, all the
- activities that couldn't clearly be attributed to 7
- a specific company audit would be what I called
- overhead activities. 9
- 10 So when you bill an operating unit,
- that bill or that invoice would cover your hourly 11
- 12 rate and out-of-pocket expenses.

file:///C|/Documents%20and%20Settings/daustin/Desktop/Deposition%20Transcripts/022007abarendregt.txt Case 3:04-cv-00374-JAP-JJH Document 341-7 Filed 10/10/2007 Page 106 of 325 13 Is that correct? 14 Α. Correct, yes. 15 Q. I believe yesterday you had said 16 that as Group Reserves Auditor, you were a part-time employee. 17 18 Correct? 19 Yes. Α. 20 MR. TUTTLE: Objection to form. 21 Characterization of the testimony. BY MR. HABER: 0191 1 Q. Did you believe during your tenure that you could devote sufficient time to 3 performing the duties and responsibilities of a 4 Group Reserves Auditor on a part-time basis? 5 I think we must realize that the system of a part-time Group Reserves Auditor had been in operation for Shell for 25 years at the 8 time. And there never had been any reason for Shell to have second thoughts about a system. 10 And therefore, I hadn't come across 11 any instances where I felt that, say, a larger 12 amount of effort had to be spent on these audits. 13 As I explained earlier, my audits 14 were of a form where I would sit around the table with a group of engineers describing a certain field; and with my experience and with the 16 17 knowledge and the experience of the people around 18 the table, it would be very quickly possible for 19 me to get a good technical picture of the field in 20 question and of the way in which the reserves 21 estimate for that field was put together. 22 As I said, I didn't go checking 0192 individual details, like did they use the right values of porosity or permeability or any of the other parameters that you need in a simulation 4 model. 5 But I did ask them how, for instance, they put together the various data that had come in from, for instance, drilling wells, how that had been put together into the simulation

9

model.

- 10 a question you already asked me yesterday.
- 11 Towards the end of my tenure, towards the end of
- 12 2003 when it became clear that there was a large
- 13 proportion of our reserves that didn't fulfill the
- 14 requirements of having, say, a firm development
- 15 plan or even FID, it became clear to me that there
- 16 was certainly a whole area in the portfolio of our
- 17 reserves that needed a lot closer look.
- So on that basis, I recommended
- 19 that we would have need at least a doubling of
- 20 manpower in the Group Reserves Auditor. That
- 21 recommendation was taken up -- more than taken up,
- 22 because now as I explained to you, they have two 5 0194
- 1 to 6 man teams, and they still have those.
- Q. During the year, how many audits
- 3 did you perform of Shell operating units?
- 4 A. Everything between seven and ten.
- 5 Q. How did you determine which
- 6 operating units to audit?

- exception to that when I started, when a large 11 backlog of these audits had been built up because
- 12 of the illness of my predecessor.
- 13 And it was felt that we had to
- 14 gradually catch up on that audit, on that backlog.
- 15 So initially, we had a system whereby the larger
- operating companies would continue on their four 16
- 17 year schedule. I would just continue that with
- 18 the -- from the previous, the previous schedules,
- 19 and the smaller operating companies would be
- 20 delayed slightly by either once in five years or
- 21 once in six years.
- 22 But after a few years, that backlog 0195
- had been cleared. I reported on those -- on that
- schedule every year in my end of year report. So
- you can see the details there.
- 4 Now, you say that this was based on
 - a fixed schedule. Who created the schedule?
- 6 I maintained it and reported it or
- 7 proposed it rather for the coming year. So each
- year, at the end of the year, I proposed a
- 9 schedule for the coming year and agreed that with
- the external auditors and with the Group Reserves
- Coordinator. 11
- 12 So the proposal was made to the
- 13 Group Reserves Coordinator and the external
- 14 auditors?

- A. Primarily to the external auditors.
- 16 Q. And was it KPMG that you made the
- 17 proposal to?
- 18 Both, KPMG and A.
- 19 PriceWaterhouseCoopers.
- 20 Who at PriceWaterhouseCoopers did Q.
- you communicate with? 21
- 22 A. I am sorry. What?

- I am sorry. Who at 1 Q.
- PriceWaterhouseCoopers did you communicate with?
- 3 A. Steve Johnson.

Coordinator and myself, effectively told them no,

19

20

21

reserves.

0198

And we, the Group Reserves

whether they could book a newly-discovered field,

a newly-discovered field for reserves, for proved

operating units after you conducted an audit?

No. No. I considered that to be

the responsibility of the operating unit concerned

reporting relationship that that company had with

and of the reserves coordinator, and the general

15

16

17

18

19

20

the central office.

- 1 cases where the reserves coordinator of that
- 2 particular company was still the same position,
- 3 was still held by the same person, there were very
- 4 few complaints or changes.
- 5 But in quite a number of companies,
- you would find that that position had changed, and
- 7 that -- or the person holding the position had
- 8 changed.
- 9 And I was surprised by the amount
- 10 of change that a new person sometimes could and
- 11 would have introduced in the reporting procedures
- 12 in that company.
- So that's when I began to -- that's
- 14 also when I began to realize that perhaps once
- 15 every four years is not enough, but it wasn't
- 16 until the fifth year.
- 17 BY MR. HABER:

- 21 I would expect to be present, what sort of
- 22 information I would need; and first and foremost, 0203
- 1 of course what would be a suitable date for them.
- Q. Did you have this communicationwith them before the schedule was finalized with
- 4 the external auditors?
- 5 A. No. Usually it was the other way 6 around, usually. Sometimes I may have approached 7 a company beforehand.
- 8 Q. A moment ago I asked you about 9 recommendations that you would make after an
- 10 audit. Whose responsibility was it to implement
- 11 those recommendations?
- 12 A. The operating company.
- Q. Now, as the Group Reserves Auditor,
- 14 were your duties and responsibilities written down

Yes. I drafted it and received

agreed document that would go into the Reserves

comments where applicable. It was finally an

9

11

Guidelines, yes.

Did anyone assist you in preparing

Did you pass the checklist over to

It was a part of my -- a full part

1

3

4

5

6

Q. Did this checklist?

A.

Q.

No.

KPMG for their review before?

you were to take my first report and compare it against the last report, you will see that it has indeed changed quite a bit over the year -- over

5

the years.

12 see whether there was any particular items that

- would be relevant to those companies, and that was
- for a number of reasons: A, I wanted to make my
- own assessment of the company, my independent
- judgment; but B, a lot of these companies I
- already knew, either because I worked there myself 17
- 18 or because I had been visiting them on my previous
- 19 assignment as consultant.
- 20 Now, in terms of items that would
- 21 be relevant to the companies, what sort of items
- are you referring to?
- 0211
- 1 A. I am not sure I understand your
- question.

- Q. Well, let me go back to your
 - answer. You said, "I would glance through it and
- 5 see whether there was any particular items that
- 6 would be relevant to those companies."
- A. Oh, I see. If there was any
- 8 particular finding in one of the previous reports
- 9 about something that wasn't entirely as it should
- 10 have been, then I would -- I would take that up.
- 11 I would register that and say, okay, this is
- 12 obviously something that I needed to check on.
- But like I said, I didn't really
- 14 feature it very much, because as I mentioned
- 15 earlier, I didn't find the reports from my
- 16 predecessor to contain a lot of structure. I
- 17 didn't find them overly useful.
- 18 Q. Now, when you conducted audits,
- 19 were these audits performed in the field, that is,
- 20 in the operating unit itself?
- 21 A. Yes.
- Q. Did you ever perform an audit of 0212
- 1 the operating company from The Hague?
- 2 A. Only when the effective working
- 3 unit of the working company was in fact located in
- 4 The Hague.
- 5 Q. And which operating unit or units
- 6 fall into that category?
- A. Oh, I don't remember. Pakistan,
- 8 there was an exploration venture; Kazakhstan in
- 9 2003, I believe, yes. Those are the two that
- 10 spring to mind.
- 11 Q. When you conducted an audit of the
- 12 operating unit, did you ever send requests for
- 13 information in advance of the audit?
- 14 A. Yes, quite often I would.
- 15 Typically what I would ask is: Can you give me an
- 16 up-to-date list of all the field names and their
- 17 field reserves, like proven expectation reserves
- 18 of oil gas -- oil and gas.
- 19 And with that, I would prepare the
- 20 bubble plots that you will have seen appear in my
- 21 reports.
- 22 And I found this to be an excellent

0213

- 1 way of picking out the exceptional fields, either
- 2 fields with high proven reserves or the large
- 3 fields because the size of the bubbles would
- 4 indicate whether it was a large field or a small
- 5 field.
- 6 Anyway, I found it an extremely
- 7 useful method of picking out the fields on which I
- 8 might want to ask some questions.
- 9 So on that -- on that basis, I

all the continue of the contin

20 reports which makes that comparison.

Did you ever request information

21 22 from the operating units to give you a picture of 0215

1 the reserves position at the beginning of the year

and the end of the year so that you can do a

3 comparison of changes?

4

5

8

17

5

7

9

MR. TUTTLE: Objection to form.

THE WITNESS: Yes. That was --

that was certainly done by me at the end of the 7

year, in the end-year statement.

In my reports, there is a table

that expresses that as well, that gives that --

10 that gives the reasons for changes, a separate set

11 of tables, one for gas, one for oil. It gives

12 those changes as well with my comments.

13 I am sorry. And when you said

end-year statements, you are referring to the

15 year-end report?

16 A. Yes.

> O. Now, at the operating unit level,

18 who is responsible for signing off on the reserves

19 that are reported to the center?

20 In my days, it was the chief

21 petroleum engineer, the head petroleum engineer,

the petroleum engineering manager, so typically 0216

the same position as I was holding in Lowestoft.

2 When you conducted your audits, did

you have interaction with this person in that --

who was the chief petroleum engineer? 4

MR. TUTTLE: Do you want to ask for

6 each one? I mean --

MR HABER: I am speaking generally.

8 THE WITNESS:

Yes. Definitely. Absolutely. I

would -- during these audits, I would of course

have a close working relationship with the 11

12 reserves coordinator because he would be the one

to answer all my questions, other than the

14 questions that I would direct to the field teams

and his supervisor, so the head reservoir engineer

or the head petroleum engineering.

So we are going to mark these for

the record. We have handed these documents out.

12

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operating units in determining the actual volumes

are the actual guidelines, which is that -- which are the guidelines that I for one, as a reserves auditor, was using as my reference, and it was intended to be used as a reference by all the

determined that Shell would continue to use their own methods and would continue to use internal guidelines that, by all concerns, were deemed to

- 4 And I believe earlier in your
- 5 testimony, you said that you had drafted the Terms
- of Reference.

7

8

- Is that correct?
- Drafted and then agreed with the
- 9 reserves coordinator and his supervisors, yes.
- 10 So with regard to Exhibit 5, the
- 11 Terms of Reference that we're looking at, you
- 12 drafted this document?
- 13 That particular page, yes. Yes.
- 14 And agreed after discussion, like I said. Which
- 15 meant that they might have come up with slight
- changes of wording or additional comments. 16
- 17 Q. Did you --
 - A. So it was an agreed document.
- 19 No. I understand that. And
- 20 actually that's my next question.
- 21 Do you recall any comments that
- 22 were given to you by the Group Reserves

0226

18

Coordinator and whoever they had reported to, such

- 6 Q. Do you recall if the comments were 7 substantive in nature?
- 8 A. From my recollection, which is 9 vague -- after all, it's seven, eight years ago.

From my recollection, they came up
with perhaps additional points that were relevant

- 12 during those -- during those audits. So they felt
- 13 that my original draft was maybe a little bit on
- 14 the brief side and they felt that it could be
- 15 expanded with one or two additional ones.
- But if you ask me which ones are these, I cannot tell you.
- 18 Q. Now, do you know if KPMG had 19 approved of this Terms of Reference?
- A. They certainly had seen the draft of it, of the whole document.
- Q. Right.

0227

- 1 A. And it was discussed between
- 2 ourselves, so between myself and the Group
- 3 Reserves Coordinator and KPMG.
- 4 Q. Do you recall if PWC participated 5 in those discussions?
 - A. No. Not in that discussion.
- Q. Do you recall if KPMG provided any
- 8 comments to the Terms of Reference?
- 9 A. Yes, they did. But again, I cannot
- 10 remember specifically which comment that would
- 11 have been. But yes, that they would have asked
- 12 questions and then on the basis of that, they may
- 13 or may not have had comments.
- Q. Do you recall if the comments or questions were substantive?
- 16 A. There is one comment that I can
- 17 remember, specifically on this one, on this year.
- In the previous year, there was a
- 19 comment saying that KPMG -- or no, external
- 20 auditors had approved of the -- of the guidelines.
- 21 And we got a comment, or the Group Reserves

Case 3:04-cv-00374-JAP-JJH Document 341-7 F 22 Coordinator got a comment or a question from KPMG

- 1 saying, "Did we approve that? How did we approve
- 2 that? Can you tell us how that went?" And
- 3 ultimately that particular sentence in a
- 4 successive guidelines was taken out.
- 5 Q. So did KPMG approve of the
- guidelines that are -- that have been marked as
- 7 Exhibit 5, for 1999?
- 8 A. They saw it and they had no further
- 9 comments to it.
- 10 Q. Do you recall any written document
- 11 that evidenced their approval of the guidelines?
- MR. TUTTLE: Object to the form.
- 13 Foundation.
- MR. BEST: Object.
- MR. ADLER: Object to the form.
- 16 THE WITNESS:
- 17 A. No, I do not remember that.
- 18 BY MR. HABER:
- 19 Q. Now, I would like you to take a
- 20 look at Exhibit 7. And also have handy Exhibit 6.
- 21 I am sorry, please turn to --
- 22 forgive me, Exhibit 8. If you can look at Exhibit 0229
- 1 6 and Exhibit 8.
- 2 And what I would like you to do is
- 3 turn to page 28 of Exhibit 6, which ends 357 the
- 4 Bates range. This is the Terms of Reference for
- 5 the year 2000 and if you can now turn to Exhibit
- 6 8, page 27 of the document which ends 167 in the
- 7 Bates number, which is the Terms of Reference for
- 8 the guidelines which were issued in April of 2002.
- 9 Now, if you take a look at the --
- 10 looking at Exhibit 6, if you look at the first
- 11 paragraph of the document, there is a reference to
- 12 FASB Statement of Financial Accounting Standards
- 13 no. 69; however, in Exhibit 8, which is 2002, the
- 14 reference to FASB FAS 69 has been removed.
- Do you have an understanding as to
- 16 why in 2002 the reference to FAS 69 was omitted?
- 17 A. Yes. We took out the explicit
- 18 reference to FASB statement number 69 which is the

14

15

omission of that portion of number 1?

MR. MORSE: Objection to form and

Those submissions regarding their

17 And that is indeed what I did.

18 There was a specific question added in my

- 19 spreadsheet, and that explains the difference, the
- 20 more extensive reference to production and sales
- 21 forecasting. And that is included in that
- 22 particular point.

- 1 Q. Why was the words on Exhibit 6 2 "economic robustness" removed in the guidelines in
- 3 2002?
- 4 MR. TUTTLE: Objection.
- 5 Characterization of the document.
- 6 BY MR HABER:
- 7 Q. If you look at number 2, it says
- 8 that, "by assessing the robustness of project
- 9 economics".

particularly the years after 2001, gradually

- 15
- 16 THE WITNESS:
- 17 In this particular sentence?
- BY MR. HABER: 18
- 19 Q. Yes.
- 20 A. I can't comment on the perception
- of this particular sentence, but I do know that
- 22 staff in the operating units each year did receive 0239
- 1 their own copies of the Reserves Guidelines. And
- I do know that even in my introduction, while I
- was out on audits, I made sure that they realized

what the latest additions to the guidelines were.

- 5 Q. When you visited the operating
- 6 units for the audits, did you get a sense that the
- 7 operating unit staff understood the information
- 8 that was set forth in the guidelines?
 - A. Yes. Yes.
- 10 Q. Did you ever, throughout your
- 11 tenure as Group Reserves Auditor, did you ever
- 12 come to a conclusion that the operating units and
- 13 the staff working at the operating units needed
- 14 education with regard to the Shell guidelines?
- 15 A. Staff that I spoke to I think
- 16 understood the changes in the guidelines.
- 17 And I didn't feel -- at that time,
- 18 I didn't see any evidence that led me to the
- 19 conclusion that the staff at the working level
- 20 needed further education in the guidelines at that
- 21 time.
- Q. Now, you say "at that time".
- 0240

- 1 First of all, when are you
- 2 referring to?
- 3 A. Generally to the period, say, from
- 4 2001 onwards.
- 5 Q. And prior to --
- 6 A. And I am dealing here with the
- 7 staff whose responsibility it was to prepare the
- 3 reserves estimates, or the staff that I would meet
- 9 and work closely with during my audits.
- Q. Prior to 2001, did you see any
- 11 evidence that led you to believe that the staff
- 12 did need education with regard to the guidelines?
- 13 A. No is the short answer to that.
- 14 No.
- 15 Q. Now, if you can turn to Exhibit 10
- 16 for a moment, and in particular --
- MR. BEST: Before you go on, do you
- 18 want him to compare with --
- 19 MR HABER: No. No. No. We are
- 20 done.
- 21 MR. BEST: Okay.
- MR HABER: Just look at Exhibit 10.

I do the end of year review of the reserves

6 accumulation process.

And thirdly, he was making use more and more of my advice and views during the year,

9 most importantly in setting up the group Reserves

10 Committee, but also in other respects.

He would talk with me quite

12 regularly, so that's why this third point was

13 added.

11

14

17

Q. Was this Terms of Reference meant

5 to supplant the Terms of Reference that we looked

16 at in the various guidelines?

A. No. They are separate. These are

18 the Terms of Reference for the Group Reserves

19 Auditor. These are the things that he is expected

20 to do.

- 0244
- 1 Terms of Reference.
- 2 Now, with regard to number 2, it
- says, "Witnessing and verifying the accumulation
- of the Group's Proved Reserves at the end of the
- year for inclusion into the Group Annual Reports
- and the SEC Form 20-F report on the basis of
- 7 information supplied by Regions/Asset Holders."
- 8 Were you performing those duties
- 9 prior to this document being drafted?
- 10 Yes, I was present during the month
- 11 of January when these reserves would be coming in.
- 12 Other than being present and
- 13 witnessing the information coming in, did you
- verify the information that came in?
- 15 Yes. I would look at them, because
- 16 the spreadsheet gave a lot of detail about where
- the specific changes came from; and I would pick

21 that company to give us reasons for that reserves

22 booking, and in particular to give us a

0246

- 1 description of the maturity of that particular2 project.
- Quite often, if it was indeed aproject on which field development plans had been

5 prepared, then those field development plans would

have been available already in The Hague, and so

7 it would be possible to refer to that.

8 But in some cases, that information

would not have reached The Hague yet. And in that

10 case, we would -- we would ask for some more data

11 and pass our judgment on the maturity of those

12 projects.

- Q. In the instances where the
- 14 development plans were prepared and available, did

He certainly had a close interest,

comments. But whether they were such that they

and I am sure he would have given me some

But they weren't, as far as I

document, not until the issue of Exhibit 10.

remember, formally enshrined in some maintained

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- 22 0251
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- 1
- 2 So it's those sort of data that I
- would ask for detailed data; and then I would ask
- them to explain the field to me, to give a 4
- description of the field, tell me where the

1 A. I think I know where your question 2 is coming from. I may have used that word in the

22

0254

ceremonial position?

technical director.

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19

20

21

22.

by it. I was surprised, particularly because when

companies, I always made a point myself and

admittedly I took the initiative there, I made a

point myself of seeing the M.D. or at least the

I went out on my audits to the operating

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0256

8

But that contact I did not have in

The Hague.Al

Also, I found that other -- that as

4 far as the external auditors was concerned, I

5 found that yes, of course there was a good

cooperation with particularly KPMG and at the end

here meeting with PriceWaterhouseCoopers.

But it was -- certainly initially,

9 it was completely oblivious to me -- I was

0 completely oblivious about the process that would

11 follow after that and, in particularly, about the

2 external auditors taking the conclusions of my

13 report to, for instance, the Group Auditors

14 Committee.

To put it even more bluntly, when I

16 started the job and during the first few years of

my job, I wasn't even aware of what the Group

18 Audit Committee was about.

Thinking back on it, I think it

20 would have been better if the reserves matter had

21 been reported more directly, particularly by

22 players by myself in the Group Audit Committee.

0257

8

14

17

17

1 And that is precisely what is happening now, but

2 of course that is after the event.

3 So it's these two factors combined

that sometimes tended to create a situation where

5 I felt completely separate from the totally

6 cooperative manner in which I worked with the

7 Group Reserves Coordinator.

I felt like working a bit in a

vacuum. I never got any response back from senior

10 circles within -- within SIEP. That was the basis

11 of that particular remark expressed a bit more

12 emotionally than I normally would have done it.

Q. Other than Philip Watts and Walter

van de Vijver, were there other members of senior

15 management that you would have expected you would

16 have received feedback from?

MR. TUTTLE: Objection to form.

18 Characterization of the testimony.

19 THE WITNESS:

- 16 senior Shell management in those days.
- 17 Did the members of senior Q.
- 18 management who attended these meetings change over
- 19 time?
- 20 Yeah. The organization changed.
- 21 EPB became something else. It changed from being
- 22 SEPIV, S-E-P-I-V, that's Shell E&P International 0259
- Ventures, which back in 1998, it would be set up
- 2 as a separate company.
- 3 That was phased out and that
- organization became part of SIEP, and I forget 4
- 5 when that was. And yes, the organization and the
- 6 organogram would change, and that would be --
- 7 But the number of people who
- 8 attended, did that change?
- 9 That increased over the years.
- Gradually over the years, there was more and more
- 11 interest shown; I say the supervisors of group
- 12 reserve coordinator and their managers.
- 13 And of course at the end of 2003,
- 14 everybody was there.
- 15 But other than 2003, when do you
- recall the shift from less to more?

- 15 after the arrival of Frank Coopman.
- And I believe that he -- from time
- 17 to time, he would make suggestions that perhaps I
- 18 would come along to one of his presentations. He
- 19 would be called upon now and again to make
- 20 presentations, and then they would be put off
- 21 again at the very last minute.
- But he suggested at one stage that 0261
- 1 I might come along, but then I believe the word
 - 2 came from above that that wouldn't be necessary.
- Q. Do you know if your annual reports were presented to the Group Audit Committee?
- 5 A. The short answer is no, I don't. I
- 6 don't know precisely in what form, if they ever
- 7 were.
- Q. Did anyone from EP ever report to you one way or the other with regard to the
- 10 presentation of your annual report?
- 11 A. Sometimes we would receive some
- 12 comment back, mostly from the external auditors,
- 13 as a matter of fact, who would have been present

- 9 fact, it wasn't until very, very late in the
- 10 process towards the end of 2003 when I -- when it
- 11 became clear to me precisely what the various
- 12 roles and responsibilities had been that I thought
- 13 by myself: It would have been useful if I had
- 14 been given an opportunity to report back to this
- 15 committee.
- I don't think we would have been
- 17 able to avoid the recategorization of reserves. I
- 18 mean, that was something that as soon as the
- 19 additional guidance of the SEC came about in 2001,
- 20 that was just waiting to happen; even when we
- 21 didn't know it until 2003.
- Q. Why do you say that it was just 0263
- 1 "waiting to happen"?
- A. Well, the successive events that
- 3 led up to the end of 2003, could it have been
- 4 avoided? Even though we didn't know it, but it
- 5 was unavoidable with hindsight, that the
- 6 recategorization was what was necessary.
- 7 Most specifically, we discussed
- 8 earlier, I described to you earlier, that one
- 9 specific comment that was introduced at the end of
- 10 2003 in the reserve guidelines that were going to

MR. TUTTLE: I am sorry. The

sentence above it says, "We weren't aware that

there was so much reserves potentially exposed. That realization became vaguely known in the course of 2000 -- end of 2002, 2003". So...

3

4

- itself is a chance.
- 8 Now the situation changed and
- improved somewhat, somewhat, with the additional
- 10 SEC guidance in 2001.
- 11 And the most important change that
- 12 was introduced was the notion of commitment. The
- 13 SEC expected to see a commitment by the company
- 14 concerned to go and develop the reserves before
- 15 they could be booked. And they gave similar
- 16 examples like it could be signed contracts or
- 17 whatever.
- 18 But the word commitment is really
- 19 the operative word there. In addition, the SEC --
- 20 but those are side issues -- the SEC changed
- 21 surreptitiously -- I find one of the wordings on
- 22 the LKH issue that we touched upon earlier.

- 1 But those were not significant in
- the context of the restatement of reserves. The
- restatement of reserves was ultimately emanating
- from the use of the word commitment and the way we

do you recall? Or no, you do not?

- A. I may have done it, but I do not
- 3 recall specifically.

7

- 4 Q. Did you -- in particular with
 - regard to the Gorgon booking, did you review any
- 6 audit trail that supported the booking?
 - A. Not really. There -- the booking
- 8 and the history behind it were verbally explained
- 9 to me, but I did not dig into the files or ask
- 10 people to dig into the files to tell me precisely
- 11 where the documents were that they had shown me.
- The predominant reason for that is
- 13 that I tend to go on my audits in the frame of
- 14 mind that I want to make my own opinion, I want to
- 15 express my own opinion, I want to make my own
- 16 judgment against the validity of that booking as
- 17 against the Group Reserves Guidelines.
- 18 Q. Who was the person who verbally
- 19 explained the history behind the Gorgon booking?
- A. I expect that would have been
- 21 Jeroen Regtien.
- Q. What was Mr. Regtien's position at 0270
- 1 the time, if you recall?
- A. I believe he was senior reservoir
- 3 engineer of SDA at the time.
- 4 Q. Do you recall the sum and substance
- of what he had told you?
 - A. In respect of Gorgon or in general?
- 7 Q. Yes.

- 8 A. In respect of Gorgon, I do not
- 9 recollect the conversation as such. But he will
- 10 have told me that Gorgon was booked whenever it
- 11 was first booked, I think a couple of years
- 12 earlier, even three years earlier.
- And that it was based on the
- 14 evaluations as they were made at that time, the
- 15 details of which just simply escape me.
- 16 Q. Do you recall if Mr. Regtien said
- 17 anything about a market for the Gorgon gas?
- 18 A. We certainly discussed it. I think
- 19 it is useful to bear in mind that Gorgon wasn't
- 20 new to me when I was there. It wasn't as if I was
- 21 faced with a totally new field to me. I knew

Case 3:04-cv-00374-JAP-JJH Document 341-7 22 Gorgon quite well. I had been attending work

- 1 shops organized by the operator who was Robert, a
- 2 branch of Chevron, back in the early '90s when I
- 3 was the representative of -- or one of the
- 4 representatives of SEIP on partner workshops, as
- 5 they were to be called then, discussing the
- 6 development opportunities for the large field of
- 7 Gorgon.
- 8 Even then in those early days in
- 9 199 -- in the early 1990s, Gorgon had already
- 10 received a considerable amount of appraisal and a
- 11 large number of wells, something in the order of
- 12 ten to 15 wells, I seem to remember, had been
- 13 drilled in the greater Gorgon area.
- 14 And from an appraisal point of
- 15 view, it seemed like the field was getting more
- 16 and more mature, and this is what I was expecting
- 17 when I came back in 2000, which was something like
- 18 five or six years after my previous visit there,
- 19 my last previous visit.
- 20 And indeed, it turned out exactly
- 21 like I expected. Meanwhile, a lot more work had
- been done on making and preparing a development 0272
- 1 plan for Gorgon by Chevron.
- 2 And meanwhile, a lot more work had
- 3 been done by Shell on the, as we called it,
- 4 downstream facilities that were required to bring
- 5 the gas to market.
- 6 Gas that was found like Gorgon on
- 7 the Northwest shelf, which is the Northwestern
- 8 shore and against the Timor Sea in Australia, that
- 9 gas did have no sizeable market in its near
- 10 vicinity, and that meant that in order to bring
- 11 that gas to a market, that gas had to be
- 12 liquified, with which there was nothing wrong.
- 13 That was quite an established method in the
- 14 Southeast Asia area in bringing gas to market.
- The market for that gas was most
- 16 likely to be what we call the Pacific Rim. In
- 17 principle, the western Pacific Rim, i.e., Japan,
- 18 Korea, Taiwan.

- Gorgon area. But the market was there, and it was 10
- 11 definitely continued to be there, and it still is
- 12 there.
- 13 BY MR. HABER:
- 14 So within the rule 4-10, if I Q.
- understand your answer, the market you say is

pipeline to an onshore location where the LNG plant would be, and that would be on the Barrow

- MR HABER: Yes. Just generally.
- 13 THE WITNESS:
- 14 A. I don't know. I know that this is
- 15 one of the things that they did, but I don't know
- 16 what else that they did. It's part of exploration
- 17 and production.
- 18 BY MR. HABER:
- 19 Q. Now, with regard to Barrow Island,
- 20 did Shell -- withdrawn.
- Were regulatory approvals required
- 22 in order to build the facilities on Barrow Island? 0278
- 1 A. Undoubtedly, yes. Yes. They would 2 have been.
- Q. And at the time that the reserves were booked in Gorgon, do you know if the regulatory approvals had been obtained?
- 6 A. I believe not, but they were not
- 7 believed to be any serious hindrance at that time.
- 8 Q. At the time you conducted your
- 9 audit, had required approvals from the government

- 11 approvals had been obtained past the time that you
- 12 had conducted your audit, so that is, from 2000
- 13 forward?
- 14 A. I am sorry. Can you rephrase the
- 15 question?
- 16 Q. I will rephrase. Do you know if
- 17 after the time you conduct your audit in 2000, the
- 18 regulatory approvals had been obtained?
- 19 MR. TUTTLE: To the present?
- 20 MR HABER: To the present.
- 21 THE WITNESS:
- 22 A. No, I don't. I haven't -- I

- haven't followed that. But not a lot of change
- had happened since I -- when I was auditor, and I
- have stopped taking interest when I quit the
- 4 auditor job.
- BY MR. HABER:
- 6 Q. At the time that you left the

particular audit. But it was also clear in the guidelines as they were issued by Shell before

though that was after the period of this

that time.

7

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5 MR. FERRARA: I am sorry. As a

5 point of clarification for the reporter, for the

past several answers this witness has been

8 referring to a signed, S-I-G-N-E-D, contract and

it's appearing in the transcript as side, S-I-D-E.

THE REPORTER: Thank you.

MR HABER: Thank you.

12 BY MR. HABER:

Q. Was obtaining all required

governmental approvals a necessary condition for

15 the booking of gas reserves?

A. It was not explicitly mentioned for

17 contracts -- for projects of this type, as far as

18 I recollect in the Group Reserves Guidelines.

The Group Reserves Guidelines,

20 which was the only reference of importance at the

21 time of the audit, insisted on a clear way visible

22 towards obtaining a market entry, i.e., having a 0283

1 market already in existence, plus a clear way of

2 obtaining a path into that market.

3 And that, in this particular case,

meant having an undoubtedly economic way of making

5 the gas into liquified gas and transporting it to

market, which was a method that had been -- as I

explained, had been well established over the

8 previous 20 years in that area.

9 And the third one is: Is there any

10 doubt that the field in question is not going to

11 be developed for reasons of economic viability,

12 whatever; and that doubt was simply not there.

Whoever I talked to made it very

14 clear to me there was in nobody's mind was there

15 any doubt that Gorgon at one stage was going to be

16 developed, or indeed that any of the partners,

17 Shell, Chevron, would walk away from Gorgon and

18 decide not to develop the field.

In fact, later on when the

20 requirement of commitment was mentioned in the

21 additional SEC guidance, I could see evidence of

22 that commitment.

Chevron/Texaco obviously. I am

hesitating because there was BHP at one stage, but

whether they had in fact sold out, so that I don't

I am not sure whether they were still in, or

know. I don't know.

16

17

18

- 19 did you meet with the staff at SDA?
- 20 A. Yes.
- Q. Other than other than Mr. Regtien,
- 22 was there anyone else that you recall meeting? 0287
- 1 A. Well, yes. We mentioned her name
- 2 before, Sheila Graham, but there were others, the
- 3 regular acting supervisor. The name escapes me,
- 4 but it can be found on the addressees of my audit
- 5 report.
- 6 Q. Do you recall if that was Mark
- 7 Chittleborough?
- 8 A. That name does not ring a bell.
- 9 Q. Does Sarah Bell come to mind as
- 10 something that you may have met with?
- 11 A. No. I think that was after my
- 12 time. I met Sarah Bell for the first time in
- 13 Bangladesh.
- Q. And when was that?
- 15 A. Around the same period, 2001 maybe.
- 16 I would have to look it up.
- 17 (Barendregt Exhibit No. 11 marked

- Q. Now, did you provide a copy of this
- 22 draft to all of the people identified on this 0289

1 list?

- A. No, I never did. I sent my draft
- 3 report to the primary auditee, who in this case
- 4 would have been Jeroen Regtien, expecting him to
- 5 take care of appropriate distribution of this
- 6 report in their organization.
- 7 Q. Do you recall providing a draft to
- 8 anyone else?
- 9 A. I usually gave a draft copy also to
- 10 the reserves coordinator.
- 11 Q. At this time, was that Remco
- 12 Aalbers?

- A. Yes, it would have been. Yes.
- 14 Q. Now, if you could just look to the

was in its predevelopment stage, in other words,

that was still in a stage of being studied by its

3

4

5

A.

Q.

A.

Q.

Yes.

-- this morning?

Yes, it was. Yes, it is.

attachment, were these form questions that you used for each audit that you performed throughout

identified in the left-hand column of the

Now, were the questions that are

I am not sure that you've addressed

5

Q.

Have you seen this document before

1

today?

- sure that he understands what the production code 6 7
- suggests.
- 8 MR. HABER: It may be what the
- 9 production code suggests, but the issue is whether
- he prepared a second draft note? 10
- 11 MR. TUTTLE: Then you can ask him
- 12 if he recalls doing so.
- 13 BY MR. HABER:
- 14 And that's the question. Do you
- recall preparing a second draft of a note? 15
- 16 The answer to the question is no, I A.
- 17 do not.
- 18 Now, do you recall with regard to
- 19 the draft note? And since you recall Exhibit 11,
- 20 do you recall receiving any comments to the draft
- 21 from Mr. Regtien?
- 22 Not specifically. But I am sure I A.

l must have received some comments.

2 (Barendregt Exhibit No. 13 marked

3 for identification)

4 Q. I am going to hand you what we have

5 just marked as Barendregt Exhibit 13. And this is

what I believe to be the final note?

- 7 A. Yes.
- 8 Q. It's dated 5 December, 2000. The

9 title line reads "SEC Proved Reserves Audit, Shell

O Development Australia, 9-13" October "2000."

The Bates range is RJW00060528

12 through RJW00060538.

Do you recognize this document?

14 A. It would appear to be my final

15 note, yes.

13

Q. Do you recall preparing this

17 document?

- 18 A. Yes.
- 19 Q. And if you look at the bottom

20 left-hand corner, there is a signature.

- 21 Do you recognize that signature?
- A. My signature.

0300

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13

18

- 1 Q. Do you recall if the final note was
- 2 distributed to the people who were identified at
- 3 the top of page 1 of the Exhibit?
- 4 A. Separate copies were put together

5 in an envelope with each of these names

6 highlighted and sent in the mail to SDA.

So I don't know whether they

actually received it, but certainly they each were

9 sent their own individual copy.

10 Q. Now, if you look in the copy

11 portion in parenthesis on the left-hand side, it

- 12 says "circulation"?
 - A. Mm-Hmm.
- 14 Q. At the right it says "SIEP EPF:
- 15 Gardy, van Nues," is it?
- 16 A. Van Nues.
- 17 Q. Van Nues.
 - Other than those two people, was
- 19 there anyone else that you had intended within EPF

Do you recall if any of the people O.

16 who are identified as recipients, either direct or

17 as copied recipients, had commented on the report?

- 18 A. Not specifically, no.
- 19 How about generally? Q.
- 20 I would expect that Remco Aalbers
- 21 would have given a number of comments, but the
- 22 character of that I just do not know. I do not 0302
- remember.
- 2 And in terms of timing, do you have
- a recollection if you had received comments from
- Mr. Aalbers after this note was circulated? 4
- 5 I would have been surprised if he
- did, because he certainly had an opportunity to
- 7 look at it beforehand.
- 8 So he was one of the people that
- you distributed your draft note to? 9
 - Normally, yes. Yes. A.
- 11 O. Now, is there anything in the final
- 12 note -- withdrawn.

- 13 Do you recall receiving any
- 14 comments from Mr. Regtien that were incorporated
- 15 into the final note?
- 16 Do I recall a specific instance A.

13

Yes.

And see whether I can seek to

Q.

Α.

- production was comparable between the submissions of the reserves and the submissions of the finance function, this deduction was made.
- In order to be consistent with this

3 sales of gas and oil during the year.
4 As a check, it was introduced I
5 believe somewhere in the '80s, early '80s, that
6 these two reported volumes, annual production and
7 sales volumes, needed to be consistent between the

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Yes.

Α.

- 2 there would be run by ADCO, Abu Dhabi -- Abu Dhabi
- Company. I forget what it stands for.
- 4 Anyway, it was referred to as ADCO,
- who would be a joint venture company between
- 6 ADNOC, who are the government oil company, and
- 7 Shell. They would be the actual operators.
- 8 Now, because they were the actual
- 9 operators but because there was a mixture there
- between Abu Dhabi government staff and Shell
- 11 petroleum staff, petroleum engineering staff, it
- 12 was deemed not necessary for me -- for me to visit
- 13 that company in Abu Dhabi. But in fact it was
- 14 deemed that it was sufficient for me to visit the
- 15 person in Rijswijk who was responsible for putting
- 16 their reserves together.
- 17 And I found that there were serious
- 18 flaws in their -- in his submission, basically
- 19 because he didn't get the data, and the ADCO
- 20 company wouldn't make it available to him, so it
- wasn't his fault. But nevertheless, as an audit 21

- 21 MR. HABER: So we will take five
- 22 minutes.
- 0315
- 1 THE VIDEOGRAPHER: Going off the
- 2 record at 2:31.
- 3 (Short recess taken)
- 4 THE VIDEOGRAPHER: Beginning tape
- 5 number 5 and returning to the record at 2:45 from
- 6 2:31.

- 7 BY MR. HABER:
- 8 Q. Mr. Barendregt, in 2000, do you
- 9 recall there being an effort by SDA to book
- 10 reserves additions in Gorgon?
- 11 A. Yes.
 - Q. When do you recall that occurring?
- 13 A. I don't know the precise date, but
- 14 it was sometime before the -- before the audit, as
- 15 I remember it.
- Q. Do you recall how much SDA was --
- 17 how much volume SDA was trying to book as
- 18 reserves?

- 16 share) have not been included in externally
- 17 reported Proved Reserves at this stage. This is in
- 18 line with Group guidelines and is therefore
- 19 supported."
- 20 What is your understanding as to
- why these reserves were not included in the
- 22 externally reported Proved Reserves at that time? 0319
- 1 A. As I remember it, my understanding
- at that time, not having been to visit SDA yet,
- 3 was that Gorgon had been the subject of an update
- of the field development study, presumably by the
- operator, and that that had yielded a slight
- increase in the amount of reserves proved and
- 7 expectation that were identified in the field.
- 8 So that is the nature -- as far as
- 9 I remember it now, that was the nature of the
- 10 slight increment, slight meaning in comparison
- with what was -- what -- the total size of Gorgon 11
- 12 at that stage.

understand what it is I mean there, but also that I later on remember myself what I have written

And I regret to say that I cannot remember precisely what went through my head here.

7

8

here.

understood it, were present in Gorgon. Not having, and I repeat, not having been there yet myself, I couldn't assure the validity of each of these arguments, certain arguments as they were presented to me seem to be sufficient to book that

6

gas.

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when I was saying that I supported it. And I regret that I didn't write it -- write it down right. This is one of the very -- I think very

And that is where I was coming from

22

corrections were becoming apparent from November

onwards that there were -- there was plenty of --

there were plenty of reserves corrections that

were asking for our attention.

19

20

21

- 11
- 13
- 14
- 15
- 16 the same as the reasons I put forward in my audit
- 17 in the year 2000.
- 18 MR. BEST: We had a gentleman's
- agreement in the generic sense to cut this off at 19
- 20 3:00 clock. And this was done specifically

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                       Case 3:04-cv-00374-JAP-JJH
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21 because of considerations for Mr. Barendregt.
22
                               So how much longer do you think you
0329
 1
       need?
 2
                             MR HABER: Absolutely. And I did,
       just so you know, did inquire at the break --
 4
                             MR. BEST: Oh, you did.
 5
                             MR HABER: -- to find out how long.
       I think I will probably be about another ten
 7
        minutes --
 8
                             MR. BEST: Great.
 9
                             MR HABER: -- if that's acceptable
10
         to you and Mr. Barendregt.
11
                               MR. BEST: That's fine.
12
                               THE WITNESS: Thank you.
                              (Barendregt Exhibit No. 16 marked
13
         for identification)
         BY MR. HABER:
16
                                 Mr. Barendregt, I am showing you
                     Q.
         what we have just marked as Barendregt Exhibit 16.
        It's a note dated January 31, 2003. It's "Review
         of Group End-2002 Proved Oil and Gas Reserves
20
         Summation Preparation." The Bates range is
21
         V00010650 through V0001066.
22
                               Mr. Barendregt, if I can direct
0330
        your attention to item 7, your main observations,
       which is on page 654. Halfway down the page,
 3
       there is a reference to Gorgon.
 4
                             Is this what you were just
 5
       referring to, this?
 6
                   Α.
                                Yes, indeed it was. Yes.
                                And this document, do you recognize
        this document as your annual report for year-end
        2002?
 9
10
                    A.
                                 It would appear to be that
11
         document, yes.
12
                     Q.
                                 And you drafted this document?
13
                     A.
                                 Yes.
14
                     Q.
                                 And if you look in the bottom
15
         left-hand corner, it bears the signature.
16
                               Do you recognize the signature as
```

your own?

Blaauw and Sheila Graham, the subject line reads,

- 17 discussed the issue with him as well. I don't
- 18 know whether in the reply, in fact, I did mention
- 19 Gorgon. I can't remember that.
- 20 BY MR. HABER:
- Q. Just for the record, if you look at
- what Mr. Regtien says, he says, "With respect to 0334
 - l Chevron operated assets, the giant Gorgon field is
- 2 classified as proved undeveloped and we intend to
- 3 downgrade that to SFR".
- 4 What is your understanding of what
- 5 that means?
- 6 A. Precisely what it says there, that
- 7 they wanted to reclassify it as SFR, Scope For
- 8 Recovery, which is the Shell term for volumes that
- 9 are identified, are known to be there, but cannot
- 10 yet be booked as Proved Reserves.
- 11 Q. So then by moving it from proved

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                                                                               Page 183 of 325
    undeveloped to SFR, that would effectively debook
    the Gorgon --
13
14
              Yes.
         A.
15
         Q.
              -- gas reserves as proved.
16
             Correct?
17
              A Shell preferred term, that is
         A.
18
    recategorize it.
19
             MR HABER: Thank you very much, Mr.
   Barendregt. I appreciate your indulgence for the
20
21
    extended time.
22
             THE WITNESS: Okay.
0335
1
            MR HABER: That concludes today.
2
            THE VIDEOGRAPHER: Going off the
   record for the day at 3:14. This is the end of
   tape number 5.
4
            (Whereupon, the deposition recessed
5
   at 3:14 p.m.)
7
8
9
10
11
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13
14
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1
                ERRATA
   CORRECTION
                                         PAGE
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22 DATE

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0339
        IN THE UNITED STATES DISTRICT COURT
1
          DISTRICT OF NEW JERSEY
2
           Civ. No. 04-3749 (JAP)
           Hon. Joel A. Pisano
3
  IN RE ROYAL DUTCH/SHELL )
  TRANSPORT SECURITIES
  LITIGATION
                      )
6
7
         VIDEOTAPED DEPOSITION UPON
8
           ORAL EXAMINATION
              OF
           ANTON BARENDREGT
9
10
             VOLUME III
11
              Taken on:
         Wednesday, 21 February, 2007
12
         Commencing at 10:08 a.m.
13
             Taken at:
14
         The Hague Zurich Tower
            Muzenstraat 89
15
           2511 WB The Hague
            The Netherlands
16
17
18
19
20
21
22 REPORTED BY: FREDERICK WEISS, CSR, CM
0340
1
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  the Class:
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                                                                        Page 187 of 325
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  STEVEN J. PEITLER, INVESTIGATOR
  BERNSTEIN, LIEBHARD & LIFSHITZ, LLP
6
7
  Deponent: Anton Barendregt
8
   The Videographer: Richard Bly
   Court Reporter: Frederick Weiss
10
11
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   ANTON BARENDREGT
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   Examination by Mr. Haber - continued
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6
7
8
              EXHIBIT INDEX
   EXHIBIT
                                 Page No:
10
  Barendregt Exhibit 18 -
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11
  Document entitled "NOTE - 31 Aug, 1999"
12 Authored and signed by Anton Barendregt
  Bearing Bates Nos. LON00820516 - LON00820527
13
  Barendregt Exhibit 19 -
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14
  Document entitled "DRAFT NOTE - 23 Sept 2003"
15 Authored by Anton A. Barendregt bearing Bates
  Nos. RJW00890491 - RJW00890500
16
                                     345
  Barendregt Exhibit 20 -
17
  Document entitled "NOTE - 30 Sept 2003"
18 Authored by Anton A. Barendregt bearing Bates
  Nos. V00010772 - V00010781
19
20
21
22
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            INDEX - continued
              EXHIBIT INDEX
   EXHIBIT
                                 Page No:
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addition bonus?

facilities, drilling the wells, et cetera.

6

7

development, I mean the costs of installing the

Have you heard of a reserves

ultimately agreed with the Nigerian government.

receive from the Nigerian government a sum of

money. I am sorry. I misunderstood your

And as a result of that, SPDC would

0349

1 2

3

5

question.

19 reserves.

You find and Shell finds that in dealings with the government, they are not really interested in improved reserves and in external 0350

1 reporting. They see that as a matter for Shell

- 2 because they see that they themselves don't have
- 3 that responsibility and -- for instance, the
- 4 Nigerian state and the Oman state.

5 They are not interested in proven

6 reserves, they are only interested in what Shell

7 phrases expectation reserves. So the reserves

8 expectation bonus was primarily awards based on

9 expectation reserves. That's one.

10 The -- I am sorry. This

11 explanation, I forgot the question again. What

12 was it?

Q. Well, the question was whether the

14 reserves addition bonus, if you had reached a

15 conclusion with regard to the bonus of whether the

16 bonus influenced the booking approved reserves at

17 SPDC?

18

MR. BEST: I am going to object to

19 the form. It's a compound question.

MR. TUTTLE: Object to the form.

21 THE WITNESS:

A. A lot -- when I arrived on the 0351

1 scene when I went to Nigeria on my first audit,

2 the reserves addition bonus had already been in

Those fields might -- without the reserves addition bonus as I understand it, those fields might otherwise have lain on the shelf until they were due to be developed without carrying any reserves with them.

0352

1

and since defendable and agreed reserves estimates
had been prepared for these fields, SPDC quite
naturally decided that since they had expectation
reserves and since there was a good development
plan and it was economic and past all the hurdles,
there was no reason why they shouldn't book proved
reserves as well.

But since those fields were studied

- Q. And those bookings, were they done
 pursuant to the changes in the guidelines in 1998?
 MR. TUTTLE: Object to form.
 THE WITNESS:
- 13 A. No, they were not, because as I
 14 tried to explain, most of these reserves were in
 15 immature fields. They were either exploration
 16 discoveries, or they were in fields that were
 17 discovered but weren't due for development for a
- 17 discovered but weren't due for development for a 18 very long time.
- So in other words, they were totally at the beginning end of the spectrum; whereas the '98 reserves changes, as I've
- 22 explained to you, primarily dealt with the fields

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1 at the end of the maturity spectrum, fields that

were in production.

0353

6

3 BY MR. HABER:

4 Q. Under Shell's guidelines, was a 5

mature field a defined term?

A mature field -- I am trying to A.

think whether there was actually a definition of a

mature field. Everybody knew at least what a 8

mature field was.

10 A mature field was a field that had

11 been developed, that had been in production for

12 sometime, but there wasn't a, say, a hard

13 definition saying that it must have produced at

least 30 percent, or whatever, a certain

15 percentage, a fixed percentage of the ultimate

16 recovery in that field.

17 I don't believe that that was laid

18 down.

19 So in essence, it was subject to

subjective determination of engineers and

21 geologists?

22 MR. TUTTLE: Objection to form.

0354

2

4

5

12

15

16

19

20

Characterization of the testimony.

MR. BEST: Same objection.

BY MR. HABER:

Q. You can answer it.

If there was a difference in the

interpretation, it certainly wasn't instrumental.

It wasn't as if somebody would judge a field that

had been in production for a half of a year and

had been producing -- three percent of their

10 ultimate recovery was regarded or defined or

viewed upon as a mature field. 11

I mean, that sort of thing never

happened. Everybody knew pretty well what a

mature field was. 14

> O. Now, did SPDC have a scorecard?

I don't know for certain, but I

17 expect there must have been, together with the

18 rest of the organization, yes.

> And what are Score Cards, for the Q.

- 21 weighting. And that meant that there was an
- 22 overall score on the targets, on the scorecard 0356
- that determined, for instance, the bonus of
- individuals concerned, starting from the Managing
- Director of a company down to individual people.
- 4 Did you ever review SPDC's Q.
- scorecard?

9

10

- A. No, I did not.
- 7 Now, in your answer, you said that the targets would be reviewed.
 - Who reviewed the targets?
 - It depended on the level. If it
- 11 was a scorecard for a company, then the targets
- 12 will be reviewed in The Hague.
- 13 Who at the Hague? Q.
 - The Regional Business Director for
- that particular company; for SPDC, it would be the
- business director for Africa.

- BY MR. HABER: 20
- 21 What happened in the year 2000 that
- 22 caused you to change your position?

- 1 Α. It was particularly the booking for
- Shell Angola.
- 3 And what was it about the booking
- of Shell Angola that raised your awareness about
- Score Cards?
- 6 A. The -- when Shell Angola wanted to
- propose a reserves addition for their Block 18
- fields, there was some doubt expressed, in the
- 9 first instance by Remco Aalbers, who was the group
- 10 reserves coordinator, as you know, supported by
- myself. I had my doubts too. 11
- 12 And we were both taken aback by the
- 13 aggressive reaction that we received from the

Proved Oil and Gas Reserves Summary Preparation."

Its Bates number is LON01260652

7

Q.

Α.

And what is Attachment 6?

Attachment 6 is a note reflecting

I say that the emphasis was on

14 surface and subsea facilities. In addition to

15 that, the type of fields that one tends to find in

16 the deep off-shore are called -- what geologists

17 call turbidites, which are sand slumps off the

18 continental shelf, so from the shallow inshore sea

19 to the real deep water.

And these fields have specific

21 qualities that, again, the American operation had

22 quite some experience in.

0364

4

20

1 So that was felt to be another

2 reason to bring that together in this Shell

3 Deepwater Services Group in Houston.

Q. Now, if you look at -- if you look

And there is a reference to a

0366 1

Q.

- At the time of the booking. Q.
 - Α. The short answer is yes.
- 5 Q. And why is that?
- 6 Α. I believe that at the end of
- 7 2000 -- remember that the reserves guidelines
- 8 gradually tightened over the years. And I believe
- 9 at the end of 2000, that the requirement was
- 10 preferably for our review to have been passed. I
- 11 forget precisely what the requirements were.
- 12 Do you recall if it was a VAR3?
- 13 MR. TUTTLE: Objection to form.
- 14 Foundation.

- 15 THE WITNESS:
- 16 No. I do not. A.
- 17 BY MR. HABER:
- 18 The reference to "marginal to poor
- 19 economics," what were you referring to there?
 - Yes. Let me -- I think at this
- stage, it's useful to describe the project in more

22 detail to you.

0368

- 1 There were six small fields
- 2 discovered in the two years preceding this point
- 3 in time. There were small fields that were
- typically something like ten -- no, 30 to 50
- 5 kilometers apart from each other.
- 6 BP were the operator; in other
- 7 words, BP was doing the drilling and was making
- 8 the development plan.
- 9 Shell decided to have their own
- 10 shadow study being done, and in this case by SDS.
- BP were quite keen on the project.
- 12 They had been pushed along by their chairman, and
- 13 they were committed to go and develop the fields
- 14 as soon as possible.
- Now, of these six small fields,
- 16 small accumulations, invariably there were a
- 17 couple that were larger and the rest of them were
- 18 smaller.
- But each of them need their own
- 20 individual platform because they were too far
- 21 apart from each other to even reach with
- 22 long-reach wells.

- 1 So each of them needed their own
- 2 separate facilities, and that meant a separate
- 3 facility already in deep water, and that with
- 4 distances of 40, 50, 60 kilometers, and that meant
- 5 expensive development.
- 6 Some of these smaller fields were
- 7 in fact not big enough to really make that an
- 8 effective proposition. And indeed, with Shell's
- 9 screening criteria, and I stress Shell's screening
- 10 criteria, which were done against a conservative
- 11 oil price of in the order of 14 to 16 barrels -- I
- 12 am sorry, 14 to 16 dollars per barrel,
- 13 particularly the outlying fields, these smaller
- 14 outlying fields did not seem attractive.
- That was against Shell's own
- 16 internal conservative estimates. However, it
- 17 would appear that if you were to look at a smaller
- 18 scale development of only the largest two, maybe

bookings were fully in line with those internal

Did anyone -- withdrawn.

Did Rod Sidle ever express a view

Rule 4-10 wasn't specific enough.

Shell guidelines, which had been put up because

11

12

13

14

15

Q.

oil/water contact. And together with the known

6

7

9

classified as proved.

the block had been penetrated?

At this meeting, had you seen that

MR. TUTTLE: Objection to form.

data to show that wells had been drilled and that

- 8 difficult. You are very lucky if you can actually
- 9 see it.
- 10 Q. Now, are there wells that are
- 11 drilled after the exploration appraisal wells?
- 12 A. Yes. Those are called appraisal
- 13 wells.

- Q. And after the appraisal well, is
- 15 there a well that's drilled -- let me ask that
- 16 again. I am sorry.
 - After you drill an appraisal well,
- 18 is there another type of well that's drilled?
- 19 A. Yes, development well. That's what
- 20 you have when you start drilling wells for targets
- 21 for producing oil, which you then plan to or will
- 22 hook up to facilities and therefore produce the 0377
- 1 oil.
- Q. So is a development well a well
- 3 that one would create a development plan around?
- 4 MR. TUTTLE: Objection to form.
- 5 THE WITNESS:
- 6 A. No. It would be the other way

- 21 are you talking about the entire field? 22 MR. TUTTLE: Object to form. 0379
- 1 THE WITNESS:
- 2 Fields. Α.
- BY MR. HABER:

22 that, it was quite clear that people were pushing

Not 100 percent sure, but I believe Α. 15 they hadn't. Not at that time, no. 16 Do you recall how much volume was 17 originally planned to be booked in Block 18? 18 MR. TUTTLE: Object to form. 19 Foundation. THE WITNESS: 20

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self-imposed country off-take constraint, and thatmeant that the SPDC part of Nigerian production

They were therefore on a

One of the reasons was that SPDC is

located in three different areas. There is the

12

A. On the -- on Exhibit No. 18, which

18 is my Proved Reserves audit report of August 1999. 19

Q. And this is the note that you

20 drafted?

21 A. No. It seems like this is the

22 final note. It has my signature on it, Exhibit

0388

4

5

6

11

17

1 18.

2 Q. All right. And just for the

3 record, did you prepare this note?

> Yes, I did, and it's my signature. A.

Q. Thank you.

So no, I cannot tell you what the

name was. He was Nigerian. End of 1998 was his

first submission by himself. He had been the

9 assistant of an expatriate, a reservoir engineer

10 in previous years.

I think he had been left to his own

Are turbidite fields located in

Not always, but it is the, say, the

6

8

Q.

A.

deep water only?

- 11 A. I am not sure whether I understand
- 12 the question.
- 13 BY MR. HABER:
- Q. Well, the Delta region that you
- 15 just referred to?
- 16 A. Yes.
- 17 Q. Did Shell have any projects?
- 18 A. Oh, yeah. Yeah. Virtually 100
- 19 percent of their fields are in that environment.
- MR. FERRARA: I am sorry. That's
- 21 not what he asked. You mean projects with
- 22 turbidite fields? Is that what your question was? 0392
- 1 MR. HABER: No. He said turbidite
- 2 -- let's go back.
- 3 Q. These fields in the Niger Delta?
- 4 A. Yes.
- 5 Q. Do they include turbidite fields?

I do not know. I would be

0394 1

A.

surprised if they had.

22

Α.

No. No.

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0396

- 1 Q. Going back now to SPDC and your
- 2 audit, you had mentioned before the break some
- 3 concern that you had about the audit
- 4 documentation, the audit trail for SPDC.
- 5 Did you include that in your audit
- 6 note for SPDC?
- 7 MR. TUTTLE: Objection to form.
- 8 Characterization of the testimony.
- 9 BY MR. HABER:
- 10 Q. And you can --
- 11 A. I believe I did. I believe I did.
- 12 But with questions like these, I always refer back
- 13 to my note to see precisely what I have written.
- 14 It is, after all, seven years ago.
- 15 Q. And you can feel free to look at
- 16 Exhibit 18, if it will help you.
- 17 And if I can help you even further,
- 18 I note that there is a recommendation on the last
- 19 page of Attachment 1 which is 518, where this is
- 20 addressed in number 6.
- 21 (Witness examining document)
- MR. BEST: Jeff, I want to note for

- 1 the record that while he is looking at this
- 2 document, that on Exhibit 18, as well as many of
- 3 the exhibits that I have seen in the course of Mr.
- 4 Barendregt's interview, there are handwritten
- 5 notations on these documents which do not appear
- 6 to be Mr. Barendregt's handwriting.
- 7 Certainly we haven't talked about
- 8 that. But indeed, if ever these Exhibits are
- 9 introduced into evidence, there has been no
- 10 foundation laid for these handwritten notations.
- And particularly on 18, there is
- 12 more handwritten notations than on other documents
- 13 I have seen.
- MR. HABER: I will ask him after
- 15 this pending question.
- 16 THE WITNESS: Okay. I have
- 17 somewhat refreshed my memory. So would you --
- 18 BY MR. HABER:
- 19 Q. Is the recommendation portion of

1 up from the individual field estimates.

2 I would typically, when I would do

my own building up, taking individual field

4 estimates that had been given to me separately, I

would come up typically just say one or two

6 percent below or sometimes higher than the figure

7 that they had submitted.

I couldn't reconstruct the exact

9 figure. I wanted to see an exact match between

0 what you built up and what you -- and what they

11 reported.

8

12

I had severe difficulty doing that.

13 And that is what the point that I am trying to

14 make here, that it's -- if you do your job

15 properly, then it's very easy -- I mean,

16 spreadsheets are very easy and comprehensive tools

leave it -- to leave it as a satisfactory -- just

11

12

satisfactory audit.

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review of all of the portfolio against all of the

picture that Rockford was four years later than this here, and there had been a significant shift

I understand that. And what I

guess I am asking is a follow-up to what you just

in the conditions in our reserves guidelines.

5

8 testified to.

4 1 carrifieout in 2003, diiedhoseTjhat conductfiedhato.45 9 MR. BEST: Objecnati. Formto.4(8

- 4 A. Yes. David Kluesner was somebody
- 5 from Rijswijk.
- 6 Q. Does John Hoppe sound familiar?
- A. John Hoppe, that was the man that I
- 8 was referring to. He was the one that was in
- 9 charge in Nigeria. He was based in Nigeria. Dave
- 10 Kluesner was a consultant in Rijswijk helping him
- 11 with that study.
- 12 Q. Now, do you know if they were able
- 13 to find the documentation on which those reserves
- 14 estimates were based?
- 15 A. I don't know. I don't remember.
- 16 They certainly didn't give us a full review of
- 17 which fields they found documentation and what
- 18 not, although there was a large spreadsheet made
- 19 highlighting -- no. Let me start again.
- What SPDC did is that for all their
- 21 fields, they made a huge spreadsheet showing
- 22 precisely where they had problems in finding a 0409
- 1 reconciliation between the well data and the --

- 1 18?
- 2 A. Well, the top right-hand corner, it
- 3 says "spare," that's my handwriting. Somebody
- 4 noted a "new Ind. Auditor", independent, "since
- 5 '97." That's wrong.
- 6 MR. BEST: But more importantly, is
- 7 that your handwriting?
- 8 THE WITNESS: No, it isn't.
- 9 MR. BEST: Okay.
- THE WITNESS: And the "1999 audit
- 11 satisfactory" wasn't my handwriting either.
- 12 BY MR. HABER:
- Q. How about the line markings next to
- 14 the text?
- 15 A. No. No. They are certainly not
- 16 mine, no.
- 17 Q. So the only handwritten note that
- 18 you recognize as your own is the word "spare" in
- 19 the upper right-hand corner?
- 20 A. Yes, correct. And my signature.
- MR. BEST: And so for the purposes

Now, I'd like to direct your

21 attention to page 3 and 4 of the document, and

22 it's Bates number 654 to 655.

0412

8

12

In particular, under number 8,which is the heading "Production licence durationconstraints."

4 A. Yes. Can I read it first before 5 you ask any questions?

6 Q. Please.

7 A. Okay.

(Witness reading document)

9 Q. With regard to SPDC, what message

10 were you trying to convey to the recipients of

11 Exhibit 16?

MR. BEST: Objection to the form.

13 MR. TUTTLE: Objection to the form.

14 Foundation.

15 BY MR. HABER:

Q. With regard to number 8, the

17 production license constraints?

18 MR. TUTTLE: Same objection.

file:///C|Documents%20 and%20 Settings/daustin/Desktop/Deposition%20 Transcripts/022107 barendregt.txtCase 3:04-cv-00374-JAP-JJH Document 341-7 Filed 10/10/2007 Page 227 of 325 19 MR. BEST: Same objection. 20 THE WITNESS: 21 I was indicating that it was 22 difficult to reconcile the proved oil volumes that 0413 1 were carried by SPDC with, on the one hand, the end of license in 2019 and the current off-take 3 rates. 4 And for all that we could see, constrained off-take rates which, if assumed to continue until 2019, would not leave enough 6 7 production to cover the current -- the carried 8 proved reserved. 9 Now, SPDC had been aware of it, and 10 they had been assuming a significant upturn in 11 future off-take rates such that before 2019, they 12 would have produced all of the currently carried Proved Reserves. 14 I had already hinted that this was 15 the case or that this might pose a challenge to 16 increase the production rate in 1999, in my audit 17 report. 18 And when it was clear that for 19 several years, SPDC had not been able to increase 20 that off-take rate, it was also becoming clear 21 that they would have a problem in making those proved reserves by the end of 2019. 0414 The situation now was different to 1 that in 1999. In 1999, there had been a period 3 when the Nigerian government found themselves incapable of putting forward their share of the 5 capital expenditure required for installing new 6 facilities. 7 And because of that, Shell had 8 refused to put in any significant amount of money 9 in developing new field facilities. 10 And that meant that with time, the 11 off-take rates would gradually be declining. 12 However, in or around 1999, I don't 13 remember the precise date, an agreement had been struck with the government whereby they would now 14 make more money available for development.

but also with a long-term forecast included, describing their foreseen costs and productions

- At the end of 2001, I tried to get
- hold of a copy. In the end, I didn't get it. I
- 17 tried to get hold of the information, particularly
- 18 in relation to the long-term forecasts. I didn't
- get it. In 2002, I finally did get something, and
- 20 I didn't like what I saw.
- 21 And why didn't you like what you
- 22 had seen?

- 1 Because there was still, in spite
- of disappointments in the off-take rate, the
- off-take rate in fact from 1999 had gone down
- rather than up. And yet there was in the business
- 5 plan still this assumption of an upturn.
- 6 And I felt at that time in a
- 7 position to say: Well, look, there is an
- inconsistency. How the hell can you make us
- believe that you are going to do that?

via him. Fine. That was the way he wanted to

And I asked for that information

the operating companies, which would have been the

somewhere early in January fairly shortly after

the first submission of the reserves came in from

22

2

3

4

0420 1 p

play it.

- 5 concern, and that's what I reported at my end 2001
- 6 report.
- 7 Come the end of 2002, my concerns
- 8 of course hadn't gone away, and that led to the
- 9 discussion that I have now got in front of me.
- Q. When you say that SPDC wanted to the change their reserve submission, in what way?
- 12 A. I don't remember the details. I
- 13 honestly don't remember. He wanted to reduce it,
- 14 but he didn't say by -- well, he did say
- 15 implicitly by how much, but he didn't say what the
- 16 reason for it was. It was just, okay, we will
- 17 reduce it by whatever volume.
- 18 And he didn't give -- that was at
- 19 that time, that was I believe Ojo Sanni who, in my
- 20 view, was really getting out of his depth as far
- 21 as his ability to stand on top of the reserves
- 22 submission.
- 0422
- 1 Q. Who is Ojo Sanni?
- 2 A. He was the reservoir engineer in
- 3 charge. He had taken over in that by that time

- I am sure you have got access to
- 8 that.
- 9 Q. Now, the documentation that you
- looked at in 2002, did this documentation show
- historical production against forecasts in the 11
- 12 business plan?
- 13 A. I don't think so. That wasn't what
- was normally done. What you would see would be
- 15 historical production and current projection of
- the future. 16
- 17 Q. Did you ask for a comparison of
- historical production against prior forecasts? 18
- 19 MR. TUTTLE: Time period?
- 20 MR. HABER: 2002.
- 21 THE WITNESS:
- 22 I can't be sure, but I don't Α.

- 3 should be raised?
- 4 Strange the way it may sound, no.
- I came to the view that certainly in the past, the
- reserves had been overstated on the basis that the
- implied forecasts, to be able to produce those
- reserves by 2019, had been unrealistic. And that
- point I made quite clearly.
- 10 But there was -- in the meantime,
- 11 there was another development and, as it turned
- 12 out, quite a significant development.
- 13 And the development was that partly
- I think as a result of my pushing against this.
- 15 Since 2001, SPDC went and looked at the legal
- 16 basis of the assumption that the license would
- 17 expire by the end of 2019.
- 18 In 1999, I had spoken with the
- 19 legal advisor, the SPDC legal advisor in Lagos,
- 20 and he described to me that indeed the license was

to defend the position that all the reserves were

going to be defended before the end of license,

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record at 12:20. This is the end of tape number

- become a member of the Committee of Managing
- 9 Directors or CMD?
- I believe she is one of the 10 Α.
- 11 directors now.

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And also for the external accountants, I would put all the SPDC in the schedule. I would put all the SPDC copies and Filed 10/10/2007

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each would have an identified copy to them, which

- 10 is highlighted. All the copies I would put in a
- 11 large envelope and just put it in the out-tray as
- 12 well, and then the Shell system would take care of
- 13 it being sent to Nigeria.
- 14 Q. Now, is this a practice that you
- 15 employed throughout your tenure as group reserves
- 16 auditor with respect to your operating unit
- 17 audits?
- 18 A. Pretty much so, yes. It was only
- 19 towards the very end of my tenure that I started
- 20 sending out copies by E-mail, because by that time
- 21 E-mail had been established as a reliable enough
- 22 means of communication that made it practical to 0434
- 1 send these documents through that medium rather
- 2 than the physical paper hard copy.
- Q. Do you recall when, at the end of
- 4 your tenure, you started using E-mail as a means
- 5 of distribution?
- 6 A. Not precisely, but it must have
- been somewhere early in 2003.
- 8 Q. So with regard to your practice
- 9 prior to the use of E-mail, did you use the same
- 10 means of distribution for your annual reports as
- 11 you did with the operating unit audit reports?
- 12 A. Yes.
- 13 Q. And then once you began using
- 14 E-mail, did you distribute the annual reports via
- 15 E-mail to the recipients of those reports?
- 16 A. Yes. If it -- if I did start doing
- 17 that during the course of 2003, then it would in
- 18 fact be the end of 2003 report that I sent out in
- 19 this way. But as I said before, I am not sure
- 20 whether I did start doing that early in 2003 or
- 21 even earlier than that, late in 2002. It was
- 22 somewhere around that period.
- 0435
- 1 Q. During your tenure as group
- 2 reserves auditor, did anyone ever communicate to
- 3 you that they had not received a report when they
- 4 were expecting one?
- 5 A. Not that I can recollect, no.

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          Case 3:04-cv-00374-JAP-JJH
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                                                                               Page 239 of 325
6
             (Barendregt Exhibit No. 22 marked
   for identification)
7
8
             We are marking as Barendregt
9
   Exhibit 22 a note dated January 30, 2002. It's
   titled, "Review of Group End-2001 Proved Oil and
11
    Gas Reserves Summary Preparation." There are two
12
    Bates ranges. The first is V00300308 through
    V00300320, and the second range is DB29057 through
14
    DB29069.
15
             (Handing)
16
             Now, Mr. Barendregt, do you
17
    recognize this document?
18
              Yes. It would seem to be my
         A.
19
    end-2001 report.
20
         Q.
              Did you prepare this document?
21
         A.
              Yes.
22
         Q.
              And if you look in the bottom
0436
   left-hand corner, there is a signature.
1
2
            Do you recognize that signature?
3
             Yes, I do, yes.
        A.
4
        O.
             Do you recognize it as your own?
5
        Α.
             Yes, I do.
6
        Q.
             Now, before our lunch break, you
   had testified that you had hinted in the 2001
8
   report about the license expiry issue.
9
             And I would like you to direct me
10
    where that hint was located?
11
             MR. TUTTLE: Objection to form.
12
    Characterization of the testimony.
13
             THE WITNESS:
14
         A.
              Okay. I will have to scan through
    it now, so bear with me.
16
    BY MR. HABER:
17
              That's okay. If I can, I can
         Q.
    perhaps make it easier. I believe it's number 6
18
19
    on page 311. But again, you tell me where it is.
20
              Yes.
         A.
21
             (Pause.)
22
             Yes, indeed. That is the point. I
0437
  don't think it is mentioned in subsequent points.
```

2 Let me just scan through those.

Now, you have mentioned people

within Shell. How about from the external

21

22.

Case 3:04-cv-00374-JAP-JJH Document 341-7 Filed 10/10/2007 Page 241 of 325 0439 auditors? 1

- 2 Do you recall any comments from
- 3 them?
- A. 4 We had an extensive discussion,
- which I seem to remember did increase their 5
- appreciation of the report and their understanding
- of it. But I do not understand whether, on the
- 8 issue of SPDC, they made any specific comments.
- 9 They may have done, but I do not
- remember that. 10
- 11 This was at the closeout section? Q.
- 12 Indeed, yes. A.
- 13 Q. And when you say that you recall
- 14 extensive discussion which increased their
- 15 appreciation of the report, is there anything in
- particular that you recall? 16
- 17 Like I said, no. No. The details
- 18 are lost over those years.
- 19 Now, if you turn the page for a
- 20 moment to page 312 under number 9, the discussion
- 21 of "Reserves Addition Targets in Score Cards".
- 22 Do you recall if anyone had a
- 0440

7

- specific reaction to what you had written in
- number 9 concerning Reserves Addition Targets in
- 3 Score Cards?
- 4 I do not recall any specific
- reaction, at the time at least, at the time -- at
- the -- say at the end of January.
 - I know that in the course of the
- year, after John Pay had arrived, the issue was
- discussed -- not in my presence, was discussed 9
- 10 among EP management, maybe in ExCom, but I am not
- sure, but that was already much later. 11
- 12 And how do you know that the issue Q.
- 13 was discussed?
 - John Pay told me.
- 15 Q. When did you have this conversation
- 16 with Mr. Pay?
- 17 After his arrival, which was at the
- 18 1st of April, and it must have been sometime
- 19 during the summer of 2002.

Not precisely. The study was committed by SPDC, sometime I guess around the

15

A.

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course already based in The Hague, near Rijswijk.

And John Hoppe came specially to the Hague for the

When did you become aware that Mr.

It must have been sometime before

Hoppe and Kluesner were conducting their study?

the actual date of this -- of this audit. I

4

5

6

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9 sorry, I can't come.

And my preference would have been

11 to tied over the audit to next year, but SPDC

- 12 themselves and I believe Frank Coopman said, "No,
- 13 we need to have at least some partial audit or at
- 14 least some type of consulting with you before the
- 15 year is out."
- So that's why this visit was
- 17 organized of John Hoppe and Dave Kluesner.
- 18 Q. Now, do you recall --
- 19 A. And that's the reason why it was
- 20 only two days rather than a full week.
- Q. Do you recall participating in any
- 22 meeting with Mr. Kluesner and others concerning 0450
- 1 the review that was being conducted?
- 2 A. Yes. Yeah. He was there.
- Q. Do you recall taking any notes of
- 4 meetings that you participated in with Mr. Hoppe

1

MR. HABER: Right.

- 1 portfolio.
- 2 And you don't do that if you do not
- 3 have at least a question whether all the volumes
- 4 are sufficiently mature for proved reserves,
- 5 bearing in mind that the guidelines, as we
- 6 prescribed them to the operating companies, were
- 7 gradually getting more tight and requiring more
- 8 firmness in the development machine.
- 9 Q. Did you begin to question whether
- 10 the volumes in SPDC were sufficiently mature prior
- 11 to this study?
- MR. TUTTLE: Objection to form.
- 13 THE WITNESS:
- 14 A. Let's put it this way: I found it
- 15 extremely useful when I heard that SPDC were going
- 16 to -- were going to do this, because I was aware
- 17 that the guidelines were tighter, and I would very
- 18 much like to know what sort of effect these
- 19 tightened guidelines would have upon the portfolio
- 20 of SPDC.
- As to the result, I had an

- 21 develop, was not an issue in either Rule 4-10 and
- 22 for that matter in Shell guidelines at that time.

- 1 Q. Could you have project maturity
- 2 without having technical maturity?
- 3 MR. TUTTLE: Objection to form.
- 4 Argumentative.
- 5 BY MR. HABER:
- 6 Q. You can answer.
- 7 A. The answer is yes, because by
- 8 "project maturity," I mean state of advancement in
- 9 the project development cycle, i.e., is it getting
- 10 close to development, has FID been taken, for
- 11 instance.
- That is what I refer to as project
- 13 maturity, and it is a notion that's completely
- 14 different from what you mentioned, commercial
- 15 maturity and technical maturity.
- 16 You can have a field or a project
- 17 that is both commercially mature and technically
- 18 mature, and yet have very little in the way of

12 was no technical maturity? 13 MR. TUTTLE: Objection to form. 14 Vague. Characterization of the testimony. 15 MR. FERRARA: Sorry. It might help Filed 10/10/2007

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these are, of course, handwritten notes which

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the process of preparing what is called a project.

of the surface facilities and of course of the wells to be drilled, and a description of the activities that needed to be undertaken to

By "project" I meant a description

5

- 8 housekeeping'" close quote.
- 9 And again, please correct me if I
- 10 am not correctly reading your note.
- 11 A. I am sorry. Which page are we on,
- 12 3?
- 13 Q. It's on page 3, 777?
- 14 A. Yes.
- Q. It's the line that begins I think
- 16 "Reservoir Categories."
- 17 A. Oh, yes. Yes.
- Q. And if you look down from that one,
- 19 two, three lines?
- 20 A. Yes. Okay. Sloppy housekeeping,
- 21 yes.
- Q. And then it goes further and says s
- 0463
- 1 "concern is large, volumes is, quote,
- 2 "'marginal.'"
- 3 A. In marginal.
- 4 Q. I am sorry. "In 'marginal'".
- 5 A. Yes.
- 6 Q. Oh, okay. In paren, is that less

form or another developed or that are either

producing or not producing. And if they are not

17 MR. TUTTLE: Objection to form. BY MR. HABER: 18

19 At the time of this meeting? Q.

20 MR. TUTTLE: Objection to form.

21 Foundation.

22 THE WITNESS:

0467

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MR. TUTTLE: Listen to the

19

20 question.

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as proved reserves".

BY MR. HABER:

say, "Yes, with reasonable certainty and checking

reserves guidelines, these can also be classified

against the conditions that we have in our

13

15

13

picture is -- well, reflects a lot more

uncertainty. There only a relatively small

portion, less than ten percent of what is carried

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and then there was a category that was not in the

business plan but where we were sure that they

But they were in the business plan,

area would this be referring to.

8

9

10

By that time, my selection mechanism of fields wasn't as sophisticated as I

7

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4

Α.

MR. HABER: Yes. THE WITNESS:

No. The study was carried out in

- 2 of project Rockford?
- A. I'm confident that virtually all of
- 4 that 700,000,000 barrels that was talked about at
- 5 that time was related to fields in the immature
- 6 end of the spectrum.
- As we discussed on the first day,
- 8 the '98 reserves guideline changes related to the
- 9 mature end of the reserves spectrum, i.e., related
- 10 to fields that had already been taken into
- 11 development, that had already been developed, and
- 12 that had already been showing production
- 13 performance sufficient for -- sufficient to yield
- 14 a production trend that could be extrapolated into
- 15 the future.
- 16 These volumes in Nigeria, virtually
- 17 all of them came from a category that I described
- 18 earlier as laying on the shelf, not ready for
- 19 development.
- Q. My question was: Do you know if
- 21 the amount, the 700,000,000, changed as a
- 22 consequence of the work that was done in project 0480
- 1 Rockford?
- 2 A. Ultimately, it became more. It was

- Correct?
- 8 Yes. Α.
- 9 Q. Did Mr. Coopman say anything in
- 10 response to the Draft Note? And in particular,
- 11 with regard to the unsatisfactory rating?
- 12 A. Not that I recall, nothing
- 13 specific.
- 14 Do you recall having any
- 15 discussions with Mr. Pay concerning the Draft
- 16 Note?

- 17 A. I don't recall them as such, but I
- 18 must have done.
- 19 Do you recall if Mr. Pay expressed
- 20 any concern about the unsatisfactory rating?
 - A. No, I do not recall that.
- 22 Q. Now, do you know if a draft of this

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- 1 report was provided to any member of the ExCom?
- A. As I said, to Frank Coopman. Other
- 3 than that, I wouldn't know. It's possible, but I
- 4 don't know.
- 5 Q. Do you know if a copy of this draft
- 6 note was distributed to Walter van der Vijver?
- A. I do not know. I certainly didn't
- 8 do that myself. It's possible that Frank Coopman
- 9 may have given him a copy.
- 10 Q. Did you ever speak to Mr. Van
- 11 deVijver with regard to the final note, which is
- 12 Exhibit 20?
- 13 A. No. Never.
- Q. Did anyone communicate to you any
- 15 reaction that Mr. Van der Vijver had to the note?
- 16 A. I don't remember, sorry.
- 17 Q. Do you recall having any
- 18 discussions about the note with Han van Delden?
- MR. TUTTLE: You are on the final
- 20 note now or the draft?
- MR. HABER: The final note.
- THE WITNESS:

- 1 A. No. I do not remember, no. Sorry.
- 2 BY MR. HABER:
- Q. Do you recall having any
- 4 communication with Brian Puffer about the final
- 5 note?
- 6 A. No. Highly unlikely, I would have
- 7 thought.
- 8 Q. Now, with regard to the final note,
- 9 Exhibit 20, of the people who are identified as
- 10 recipients, either direct or who are copied, did
- 11 you receive any reaction from any of these
- 12 individuals?
- 13 MR. BEST: In a comment?
- MR. HABER: A comment to the note.
- 15 THE WITNESS: Nothing stands out in
- 16 my memory, and I wouldn't be surprised if there
- 17 wasn't any reaction.
- 18 BY MR. HABER:
- 19 Q. And is why wouldn't you be

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I believe he was just new in the

(Barendregt Exhibit No. 24 marked

We are marking, for the record,

E-mails with an Attachment. The last E-mail is

from John Pay that's dated May 30, 2003, and it's

Barendregt Exhibit 24, which is a series of

position of Group Controller.

for identification)

to Mr. Barendregt.

5

6 7

8 9

11

- 15 text as yours?
- Yes, I do. 16 A.
- 17 And do you recognize the other O.
- markings on this page as yours?
- 19 I recognize my exclamation mark, Α.
- 20 yes.

- 21 And on the next page, 780, do you Q.
- 22 recognize this handwriting as your own? 0489
- 1 A. It must be.
- 2 And again on page 781, do you Q.
- 3 recognize the markings and text as your own?
- 4 The text, certainly, and the rest
- 5 must also be mine, yes.
- On page 782, do you recognize the 6
- 7 markings and the text which includes the numbers?
- 8 A. Yes. The same comment.
 - Q. So you recognize them as your own?
- 10 A. They are text and the writing, and

- Impossible to say. Likely.
- 11 Q. The handwriting is your own. Do
- you recognize that? 12
- 13 A. Yes indeed.
- If you can turn back to the first 14 O.
- 15 page of the document.
- 16 Actually, let me ask even a more
- 17 general question: Do you recall the context in
- 18 which this E-mail exchange occurred between you
- and Mr. Pay? 19
- 20 No, I do not. I would have to read
- 21 the document before I could make any comments on
- 22 them.
- 0491
- 1 Well, before we do that, let me ask
- you if you can look at the last E-mail, which is
- the first E-mail you see at the top of the page? 3
- 4 Mm-Hmm. A.
- 5 O. It's from Mr. Pay to you dated May
- 30. He says in the second paragraph, "The minimum
- objective" paren "(from my point of view)" close

That was just simply not my task in

It was at the specific request of

2

4

life, so to speak.

- 6 in these type of discussions. But I think that
- even -- that John Pay would have agreed with me
- that these sort of considerations would not be
- 9 mine to act on.
- 10 I could listen to them, but I would
- 11 not do anything with them until the end of the
- year, and then I would see what the situation was
- 13 at that time and make a recommendation or a
- 14 comment.
- 15 Who did you believe was responsible Q.
- 16 for such considerations?
- 17 Well, it would seem that these are
- -- this is an E-mail from John Pay, and I read
- from this that these are his intentions or targets
- 20 or aspirations.
- 21 Okay. One last question, or mini
- series of questions: If you turn to page 779, the 0494
- handwriting at the bottom, I am not sure I get all
- of that.
- 3 So if you could, could you read
- that for us, please? 4
- 5 "What about SIEP's" reserves
 - replacement ratio "management process (to avoid"
 - -- in between brackets -- "(to avoid major swings
- from year to year?"
- 9 Q. Do you recall what you meant by
- that? 10
- 11 In previous years, and I am going
- 12 back to end '98, end '99, as a result of the
- 13 introduction of the new guidelines, there were
- 14 significant reserves additions.
- 15 These significant reserves
- 16 additions led to additions that were in excess of
- 17 what was actually produced.
- 18 Now, one way of describing that
- 19 particular metric was to issue or to calculate a
- 20 ratio that was called the reserves replacement
- ratio, which is in essence the increase in proved
- 22 reserves divided by the amount of production 0495
- occurring during that year.

Page 271 of 325

As it was, we didn't. I believe
the reserves replacement ratio at the end of 1998
was close to 150 percent, and the following year
it was something similar. And then in the year
after, we were getting close to 100, and then we
were dropping below.

John Pay had recognized this, and we had discussed it from time to time. And his idea was that if we had any reserves additions that would exceed the 100 percent, that we would store those up and save those for a rainy year, for the following year.

DATE

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0502
        IN THE UNITED STATES DISTRICT COURT
1
          DISTRICT OF NEW JERSEY
2
           Civ. No. 04-3749 (JAP)
           Hon. Joel A. Pisano
3
  IN RE ROYAL DUTCH/SHELL )
  TRANSPORT SECURITIES
  LITIGATION
                      )
6
7
         VIDEOTAPED DEPOSITION UPON
8
           ORAL EXAMINATION
              OF
           ANTON BARENDREGT
9
10
             VOLUME IV
11
              Taken on:
         Thursday, 22 February, 2007
12
         Commencing at 10:10 a.m.
13
             Taken at:
14
         The Hague Zurich Tower
            Muzenstraat 89
15
           2511 WB The Hague
            The Netherlands
16
17
18
19
20
21
22 REPORTED BY: FREDERICK WEISS, CSR, CM
0503
1
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  the Class:
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file: /\!/\!C|/Documents\%20 and\%20 Settings/daustin/Desktop/Deposition\%20 Transcripts/022207 ab.txt
         Case 3:04-cv-00374-JAP-JJH
                                     Document 341-7
                                                       Filed 10/10/2007
                                                                        Page 276 of 325
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                                                                      Page 277 of 325
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  STEVEN J. PEITLER, INVESTIGATOR
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6
7
  Deponent: Anton Barendregt
8
   The Videographer: Richard Bly
   Court Reporter: Frederick Weiss
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   ANTON BARENDREGT
                                 Page No:
  Examination
   Examination by Mr. Haber - continued
                                            509
6
7
8
              EXHIBIT INDEX
   EXHIBIT
                                 Page No:
10
  Barendregt Exhibit 25 -
                                     509
11
  Document entitled "NOTE - 18 Nov, 1999"
12 Authored and signed by Anton Barendregt
  Bearing Bates Nos. LON00010729 - LON00010741
13
   Barendregt Exhibit 26 -
                                     509
14
  Document entitled "Draft Note - 3 Nov 2003"
15 Authored by Anton A. Barendregt bearing Bates
  Nos. V00240172 - V00240180
16
                                     509
   Barendregt Exhibit 27 -
17
  Document entitled "NOTE - 29 Nov 2003"
18 Authored by Anton A. Barendregt bearing Bates
  Nos. V00300014 - V00300028
19
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21
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1
            INDEX - continued
              EXHIBIT INDEX
   EXHIBIT
                                 Page No:
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          Case 3:04-cv-00374-JAP-JJH
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                                                           Filed 10/10/2007
                                                                              Page 280 of 325
   Document entitled "NOTE - 1 February 2004"
6 Authored by Anton Barendregt including
   Attachments 1 - 8 bearing Bates Nos.
   RJW01021058 - RJW01021076
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0509
   PROCEEDINGS --
            (Barendregt Exhibit Nos. 25, 26,
   and 27 were marked for identification)
            THE VIDEOGRAPHER: This is the
   beginning of Volume IV, videotape number 8 in the
   deposition of Anton Barendregt. Today's date is
   February 22, 2007. The time on the record is
   10:10 a.m.
            Please proceed.
10
         EXAMINATION BY MR. HABER - CONTINUED
    BY MR. HABER:
11
12
         Q.
              Good morning, Mr. Barendregt.
13
         A.
              Good morning.
14
              Today I hope to be able to cover
15
   the reserve situation in PDO Oman as well as
16
    discuss a couple of documents with you concerning
17
   Project Rockford.
18
             And then if there is any
19
    miscellaneous issues to tie up, we will finish
20
    with that. But that's what I plan to cover today.
21
             Before we went on the record, I had
22 premarked three exhibits which I will hand to you
```

2

3

4

8

9

Α.

No.

reserves to the Omani government?

Yes.

17

Α.

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Filed 10/10/2007

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- 17 then forward?
- 18 Α. I am sorry. Can you rephrase the
- 19 question?
- 20 Q. Sure. Do you recall if there was
- 21 any impact of the guideline changes on the way in
- which PDO was reporting its reserves to the 0515
- 1 Center?
- 2 A. Not immediately, no. Not in 1998
- or 1999.
- 4 O. When -- if it was in '98 and '99,
- when did the guideline changes in '98 impact the
- way in which PDO was reporting Proved Reserves to
- 7 the Center?

- A. That was at the end of 2000.
- 9 And how did the guideline changes
- 10 impact the way in which PDO was reporting its
- **Proved Reserves?** 11
- 12 I think we have to get a
- representative answer to that question. We have
- to go back to the situation that I found in 1999

11 the two is in fact going down; whereas, in

rapidly than the expectation reserves.

from both of these estimates, then the remaining reserves in the proved, of course, dwindle more

And therefore, the ratio between

7

9

have a -- or set up a convenient and accurate way

Now, I would have expected PDO

of arriving at a representative total Proved

Reserves estimates.

- 1 A. They would be, yes.
- Q. For the moment, you can put that a side.
- 4 A. Okay.
- 5 Q. Now, earlier in your answer, you

- 10 corner, there is a signature.
- Do you recognize that signature?
- 12 A. Indeed I do.
- Q. Is it yours?
- 14 A. Yes.
- 15 Q. Now, you say that this issue about
- 16 maintaining the proved reserve records is
- 17 reflected in your report.
- 18 Can you show us where in the
- 19 report?
- A. Well, the first page on the summary
- 21 page, fourth paragraph, I say, "The most
- 22 significant comment concerns the generally 0523
- 1 conservative nature of the individual fields'
- 2 proved and proved developed reserves estimates."

you just said in your answer, so with regard to

volume would be exposed due to license expiry.

Am I correct?

PDO, then you were not able to ascertain how much

MR. TUTTLE: Objection to the

18

20

21

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Case 3:04-cv-00374-JAP-JJH Document 341-7 0525 1 characterization of the testimony. Sorry. 2 MR. MORSE: Same objection. 3 THE WITNESS: Would you mind repeating the question? 5 BY MR. HABER: 6 I guess what I am trying to understand is what was the effect of not having 8 that information given to you during your audit? The effect is -- was that the 9 10 Proved Reserves estimate that was given to me, 11 that was submitted had been submitted at the end of 1998, because that was the one that I was due 13 to audit in '99, had not been put together or at least there was no evidence put before me that it 15 had been put together according to the proper 16 procedures. 17 The reason being that on the one 18 hand, the individual field estimates were too low 19 and, secondly, that the way of adding up these 20 reserves was not done in a proper fashion. 21 I suddenly realized that there was 22 one further mention why PDO was different from 0526 1 SPDC, and that has been well documented in my reports, is that in addition that Oman had a 3 target overall uptake, overall production level of 850,000 barrels a day, that was the Oman 5 government imposed target. 6 And that meant that the at any day 7 at the time that I was there, Oman could in fact -- the PDO operation could in fact produce more than that 850,000 barrels a day, but didn't. 10

- 9
- And that meant that they had to do 11 some sort of prioritizing, giving priority to
- 12 certain fields and that other fields had to be
- 13 held up.
- 14 Now, if you have a situation like
- 15 that, then it becomes even more complicated to
- actually come up with a combined production
- 17 forecast.
- 18 It is not just sufficient to have a
- proved production forecast for each and every

- Just going back to my question
- 20 about the effect of not having the evidence before
- 21 you, that you said that, "there was no evidence
- 22 put before me that it had been put together 0528
- according to the proper procedures."
- 2 As a consequence, were you able to
- determine how much volume fell outside -- that is,
- production fell outside the license, the end of 4
- license period?
- 6 My conclusion was that the bottom
- line Proved Reserves estimates submitted by PDO
- for the end year amalgamation in SIEP had been too
- conservative. 9
- 10 So I was expecting that a proper
- calculation of A, both the individual fields 11
- 12 proved volumes, that I also leave some
- instructions in my report as you have seen, and
- 14 taking account of the production license expiry
- together with the fixed off-take of 850,000
- barrels a day, those two factors combined would

- 20 responsibility in the early 1990s.
- 21 That meant that I would make
- 22 comment, I would be free to make comment, and I 0530
- would also, as when necessary, make suggestions on
- how they could improve estimates and improve their
- 3 procedures.

- So I saw no conflict there with my
- role as group reserves auditor, nor did anybody
- 6 else, as a matter of fact.
- 7 When you say "nor did anybody
- else," did anyone approach you and communicate
- 9 that to you?
- 10 The opposite. Nobody communicated
- to me that it wasn't appropriate for me to do 11
- 12 that.

13

Q. Did you ever ask, for instance, the

- 19 complex than in many other areas," comma, "a
- 20 suitable criterion for" in quotes "'maturity'
- 21 could be NP" greater than symbol "> 0.4*" -- I
- 22 think that's an asterisk, "expn" capital "UR." 0532
- 1 Can you explain what that means?
- 2 A. Yes. It's reservoir engineers'
- 3 jargon for expressing that cumulative production,
- 4 and that's what the NP stands for, is greater than
- 5 40% of expectation ultimate recovery in the field;
- 6 so in other words, if the field had produced,
- 7 physically produced in excess of 40% of what the
- 8 field was ultimately expected to yield in the way
- 9 of recoverable oil or gas.
- But in the case of PDO, it was

- Yesterday, you testified with
- 11 regard to SPDC that your annual audit, which came
- 12 out in January 2000, hinted at the license expiry
- 13 issue.
- 14 Can the same be said for the
- license expiry issue in PDO?
- 16 I am sorry. Would you repeat the A.
- 17 question?
- 18 Well, do you recall if your annual Q.
- report for year 1999, which comes out I believe in
- 20 January --
- 21 A. Yes.
- 22 Q. -- of 2000 reflected your concerns 0534
- about license expiry in PDO?
- 2 MR. MORSE: Objection to form.
- 3 THE WITNESS:
- 4 Okay. As I explained, my concern
- wasn't so much that the license expiry was having
- an effect on a particular -- a curtailing effect
- on Proved Reserves.

MR. HABER: I don't believe there

MR. HABER: Let me ask one.

MR. FERRARA: Good.

1 2 is.

3

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to this portion of the note that I just read into

22

0538

the record?

MR. HABER: One sentence.

MR. GOLDSTEIN: But you didn't

19

20

21

finish the sentence.

- 1 you had with Lorin Brass?
- 2 A. Once a year meeting just before the
- 3 end-of-year meeting with the external auditors, I
- 4 would present my draft report -- he would see my
- 5 draft report which I would have circulated to or
- 6 within SIEP, and there would be a brief discussion
- 7 of me together with the Group Reserves Coordinator
- 8 and probably his supervisor with Lorin Brass.
- 9 Q. I mentioned --
- 10 A. You mentioned Lorin Brass, but at
- 11 the time at the end of 1999 it was Linda Cook
- 12 still, not Lorin Brass. Lorin Brass came on the
- 13 scene, if I remember right, was just shortly after
- 14 that.
- 15 Q. What was your level of interaction
- 16 with Linda Cook?
- 17 A. As it happened, nil. Linda wasn't
- 18 around at the end '99 period. And as a result, I

- 20 in Attachment 6 under Oman?
- A. Not specifically, no.
- Q. Do you recall if the external

- 1 auditors from KPMG or PWC asked any questions
- 2 concerning the information that's set forth in
- 3 Attachment 6 under Oman?
- 4 A. No, not specifically. No.
- 5 Q. Do you recall if the discussion
- 6 concerning the reported proved developed
- 7 entitlements came up during the closeout session
- 8 for year-end 1999?
- 9 A. They certainly would have come up,
- 10 because I made my presentation. It was mentioned
- 11 in my report and in my -- in my presentation. I
- 12 am fairly certain that a comment along these lines
- 13 would have been included. But I need to go back
- 14 to my actual presentation to be absolutely
- 15 certain.

- 16 coordinator in PDO, so indeed he would have been
- 17 my daily contact during the audit.
- 18 Q. Do you know who Stuart Evans is?
- 19 A. Yes, I do.
- Q. And who is Stuart Evans?
- A. Stuart Evans is a senior engineer,
- 22 senior reservoir engineer in Shell. At that time, 0545
 - 1 he was the area reservoir engineer, area reservoir
- 2 engineer and consultant for the Middle East. What
- 3 else do you want me to say?
- 4 Q. Do you recall meeting with him at 5 the time of your audit in 1999?
- 6 A. I don't think I did.
- 7 Q. Do you know a Stuart Clayton?
- 8 A. Yes. He was in Oman. I am trying
- 9 to remember whether he was there at the time of
- 10 the first audit. He certainly was there during
- 11 the second -- during the time of the second audit
- 12 in 2003. I cannot remember whether he was there

- 16 finalized?
 17 A. Not specifically, but it was -- as
 18 I explained to you several times, that was my
 19 habit of doing so. I must have done it here as
- Q. Do you recall receiving any comment from any of the people that you distributed the 0546
- 1 draft to?

well.

- A. Not specifically. There is likely to have been one or two, yes.
- Q. At the time you conducted youraudit, did you review PDO's business plans?
- A. No. No. That wasn't my task. I may have used it, but to say that I reviewed it, 8 no. That was beyond my task.
- 9 MR. HABER: This is probably a good 10 time to take a quick break.
- 11 MR. TUTTLE: Great.
- 12 THE VIDEOGRAPHER: Going off the
- 13 record at 11:03.
- 14 (Short recess taken)
- 15 THE VIDEOGRAPHER: Returning to the
- 16 record at 11:33 from 11:03.
- MR. FERRARA: Mr. Haber, over the
- 18 course of the break --
- 19 THE VIDEOGRAPHER: I don't have a
- 20 mic on you, do I? Who is talking.
- 21 MR. BEST: Mr. Ferrara. Just speak
- 22 up.
- 0547
- 1 THE VIDEOGRAPHER: Go ahead.
- 2 MR. FERRARA: Over the course of
- 3 the break, Mr. Barendregt had an opportunity to
- 4 reflect further on what appears to be some
- 5 confusion that's entered into our record with
- 6 respect to his testimony, on the one hand
- 7 indicating that on a field-by-field basis the Oman
- 8 Proved Reserves were understated, and his
- 9 testimony that with respect to as reported Proved

commensurate with these proved volumes, proved

individual fields as a fair representation of the volumes that are actually producible -- of the volume that are producible from these fields and taking the production forecasts that would be

I hope this gives a better -- or
this gives you a better understanding of my
description of the situation in Oman around 1999.

22

the report.

- 9 A. Correct, yes.
- 10 Q. Okay.
- 11 A. And like I said, these 15% of
- 12 reserves, overstated reserves had been corrected a
- 13 couple of months later at the end of '99.
- Q. And was that reflected in the
- 15 year-end ARPR?
- 16 A. Yes. Indeed they were, yes.
- 17 Q. Okay. Thank you.
- 18 A. Okay.
- 19 Q. Now, with regard to production, I
- 20 believe you had mentioned a production forecast of
- 21 850,000 barrels a day.
- Is that correct?

- 1 A. Yes.
- Q. And that forecast was seen by you
- 3 during your 1999 audit?
- 4 A. Yes. I am fairly certain it was.
- 5 I believe that I had access to the year Oman -- to
- 6 the PDO business plan. A copy was made available
- 7 to me during the audit. So in the end, that would
- 8 have contained the 850,000 barrels a day forecast.
- 9 Q. Did there come a time when that
- 10 forecast changed?
- 11 A. How do you mean?
 - Q. Well, after 1999, did there come a
- 13 time when PDO was finding it difficult to reach
- 14 production of 850,000 barrels a day?
- 15 A. Yes. It came as a shock to us all.
- 16 But I believe in the course of 2001, PDO were
- 17 having serious problems in maintaining the 850,000
- 18 barrels a day. One particular problem that
- 19 occurred, and one particular problem that stands
- 20 out in my memory is that in their largest field,
- 21 the Yibal field, they had over the previous years
- 22 been installing in-fill drilling, i.e. drilling

0553

accelerate oil production through water injection.

And it turned out that that latest

4 round of in-fill drilling was by no means as

5 successful as it had been anticipated. It is a

6 matter of fractures providing a direct --

7 fractures in the field, unrecognized fractures

B providing a direct path between injectors and

9 producers.

3

10

21

6

8

13

14

And therefore, the water injector

11 would come out within hours or a very short period

12 to the producers and therefore not yield the

13 effect that had been anticipated.

14 That was a big project and dealt a

15 serious blow to PDO's ability to maintain the

16 forecasts. But that wasn't the only one. In

17 other fields, there were disappointments occurring

18 at the same time.

19 Q. Was the Yibal field the largest

20 field in PDO?

A. If not the largest, at least the

22 three largest. There were Natil, Fahuud, and 0554

1 Yibal. I believe Yibal had the highest volume of

2 recoverable oil. The others had somewhat lower

3 recovery factors. But the in-place volumes of the

other two fields may have been larger, but that I

5 am not too sure of.

Q. I am sorry. I just want to go back to one second to your explanation when you were talking about the 15%.

9 A. Mm-Hmm.

Q. Did that 15% exposure represent 15%

11 of PDO's total portfolio of Proved Reserves?

12 A. Proved developed.

Q. Proved developed reserves?

A. Yes.

15 Q. Now, coming back now to the

6 production issue, do you recall when in 2001 you

17 became aware of this production problem?

18 A. Somebody must have mentioned it to

19 me, probably Remco Aalbers, maybe Ian McKay at the

20 time, who was his supervisor.

D, which we marked as Exhibit 29 --

MR. HABER: I am asking him, and he

- 8 Okay. Q. 9 Α. And I will to have read it
- carefully. Somebody has some scribbling in it,
- which certainly aren't my scribbles.

- 12 Q. That's going to be one of my next
- 13 questions.
- 14 A. Well, they are not.
- MR. BEST: And just for the record,
- 16 Mr. Barendregt, you are speaking about the
- 17 document with Bates number RJW00151703?
- 18 THE WITNESS: Indeed, yes. Number
- 19 29, yes.
- 20 (Pause)
- Yes. I believe your answer was
- 22 that aboune Anline, which is headchein thas
- 21 tabiclin Exhibit --at aboune Anline is provenas
- 22 dlielopchereserves, 40%, that thais t abe on thas
- 13 is in line t witf me remcumdinaties.

15 BY MRHABER:s.

- 17 </Attacumen3, Exhibit 5, didt, yomakemr ys.
- 18 e remcumdinatibt witndrardeg tr/Deretti proveds.
- 19 undlielopchereserves03?
- A. Yes, I did. That'p gotes numbe33?
- 21 e ot abfirjushalf --at/Tohalf e o</Attacumen3 in3?
- 22 thaExhibit, Exhibit 5, whe arI say, "F foproveds.
- 13 undlielopcherecoverabics, a multipiclscenarios.
- 14 mod Wetti...shouldtideallyto bfollowdee" so inIndes.
- 15 I adendsschet abundlielopchereserveset areot.
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- 13 Paufulng to arnin minI thaf me remcumdinatiliw,)
- 15 g about foundlielopchereserves, thaitemerequiress.
- 17 mod Wetti is carricheabo.s.
- 18 Anbyeg th, I mean that ab0Trgoxt

- which was also marked as Aalbers Exhibit D, and in
- particular, I'd like you to take a look at item 5,
- which appears on the bottom of the page.
- 11 It says, "As for your proposed
- 12 volumes to book as externally reported Proved
- Reserves," paren, "(before they are cut off by
- license expiry)", close paren, "your line" quote
- 15 "'proven,'" comma "'DevRes 40%,'" comma "'UndevRes
- 60%" close quote paren "(347 mln m3 Dev Res and 16
- 17 254 UndevRes)" close paren "seems to be the best
- 18 one to aim for?"
- 19 Do you recall having any
- 20 discussions with Mr. Aalbers concerning this
- suggestion? 21
- 22 A. Yes. I -- yes I had, yes.
- 0564
- 1 And how did you come to -- in the O.
- context -- withdrawn.
- 3 What do you recall discussing with
- Mr. Aalbers?
- 5 We mustn't forget that this is A.

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Α.

THE WITNESS:

We were faced with the reality that

- 5 Q. When you said in your answer, "It
- was deemed desirable to come up with a method of
- 7 recalculating Proved Reserves in such a manner
- 8 that the recommendation that I made here would be
- 9 better reflected than they were."
- 10 And then it actually -- it's a
- 11 little difficult to read, but who deemed it
- 12 desirable to come up with a method of calculating
- 13 Proved Reserves?
- MR. TUTTLE: Objection.
- 15 Characterization.
- 16 THE WITNESS:
- 17 A. The drive for this came from Remco
- 18 Aalbers.
- 19 BY MR. HABER:
- Q. Did Mr. Aalbers say what was
- 21 causing him to be so driven?
- MR. BEST: Objection.

- 21 Aalbers, did you discuss reserve replacement ratio
- 22 target?

- 1 MR. TUTTLE: At any time? Any
- 2 discussion with Remco Aalbers?
- 3 MR. HABER: No. The discussions
- 4 concerning Oman.
- 5 THE WITNESS:
- 6 A. We may have done, but I don't
- 7 specifically recall them. But we may have done.
- BY MR. HABER:
- 9 Q. Do you recall any conversation
- 10 concern this booking of reserves in Oman with Mr.
- 11 Aalbers where he said to you that he was under
- pressure to reach a certain percentage of the RRR?

 A. I remember comments to that effect.
- 13 A. I remember comments to that effect, 14 yes. In that period, he was under pressure; he
- 15 appeared to be under pressure.
- Q. What was the basis for your
- 17 observation?

- A. Comments by himself, I think.
- 19 Q. Do you recall what he said to you?

Now, do you recall if the method as

proposed in Exhibit 30 is the method that was

15

Q.

And on that basis, I had no reason

to have any serious doubts about the expectation

volumes that were carried in the books.

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about the first of these production problems, yes.

the reserves that had just been booked should be

Did you begin to consider whether

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10

debooked?

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- situation of PDO and, as it happens, SPDC and the others. 10
- 11 I guess the question I am asking Q. 12 you is: Did you suggest to anyone how the 13 guidelines should be tightened and be made more 14 specific?
- 15 Yes, I did, in the following year. A.
- And that would have been in the year of 2002. 16
- 17 Q. And is that recommendation
- 18 reflected in your annual report?
- 19 Yes. Number 2 of my
- 20 recommendations on page 4 of the same Attachment.
- But it says, "In the Group reserves guidelines,
- 22 include guidance on assumptions to use in future 0579
- production profiles when these become important
- for OUs with constrained production licence
- durations. With such guidance, review the present
- assumptions used by e.g. SPDC and PDO."

- - end-year document. I can't be precise. Certainly
- 5 the issue itself was raised. That of course I am
- sure about. Whether the issue of the guidelines,
- 7 I cannot tell off-hand. I would have to look at
- 8 my report.
- 9 Now, from -- other than the
- 10 challenge session -- withdrawn.
- 11 Other than the ARPR process, did
- 12 you have any follow-up with PDO concerning any of
- the issues that you identified in your report, the 13
- 14 1999 report, that is?
- 15 A. None that I can remember.
- 16 Q. And again, other than the ARPR
- 17 process, did you have any follow-up with PDO
- 18 concerning the production problems that PDO --
- 19 that you had learned PDO was experiencing?
- 20 The only follow-up that I can
- 21 remember is the follow-up at the end of 2002 when
- 22 the issue of the production license constraints,

et cetera, was raised again by me in my report.

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specific data regarding their assumed off-take

3 profiles, and that led to a specific item that I

raised in my end 2002 report where I said that

clearly the Proved Reserves estimate carried by

PDO is too high.

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I made quite a specific assessment of the volume by which, in my opinion, on the basis of the limited data that I had available, it was obvious that something was not right.

- If you can just take a look at
- 13 Exhibit 16 for a moment, and just identify where
- that discussion is included or contained, rather?
- 15 It would be on page 3 of Attachment
- 16 1 of Exhibit 16, item number 8, last paragraph at
- 17 the bottom. First I introduced the issue again of
- 18 companies being constrained both by the end of
- license and by their offtakes. And then I
- 20 described that I asked Shell Abu Dhabi PDO and
- 21 SPDC for additional information.
- 22 And where in the last paragraph, I 0582
- say, "PDO did not provide a clear answer to the 2 query."
- 3 And I go on to say, "Comparison of
- their stated Proved oil reserves volume against 4
- their latest Business Plan forecast showed that
- the Proved volume seems unrealistically high," and
- 7 then I go on.
- 8 Q. Now, with regard to this portion of
- 9 the year-end report, and the portion I am
- 10 referring now to what you just read under item 8,
- 11 do you recall having any comment -- receiving any
- 12 comment from any of the recipients on the first
- 13 page of Exhibit 16?
 - And that includes the direct
- 15 recipients and the recipients who are copied.
- 16 No specific comments stand out.
- 17 Walter van de Vijver and ExCom members certainly
- didn't come back to me, Malcolm Harper didn't.
- 19 Frank Coopman and I had frequent contact with, so
- 20 he may have given some comments or asked
- 21 questions.

- van Delden and Brian Puffer who of course I saw at
- 3 the end of January 80.
- 4 Other than specific conversations, Q.
- do you recall any specific conversations that you
- had with Mr. Coopman concerning Oman?
- 7 Not specifically, no. No. I am
- 8 not saying that we hadn't, but I cannot remember
- 9 any specific points.
- 10 And again, general discussion over
- 11 Oman, do you recall having that with Mr. Van
- 12 Delden?
- 13 A. Not specifically. But I made the
- 14 point, this particular point and many other
- 15 points, quite clear in my presentation.
- 16 I remember that I showed a view
- 17 graph with the production forecasts, at which I
- 18 drew various lines suggesting what the minimum
- 19 amount was by which I needed to see the Proved
- 20 Reserves estimate needed to be corrected.
- 21 And was Mr. Puffer present during
- 22 this presentation?

- 1 A. Yes, he would have been, yes.
 - Q. Do you recall any reaction from Mr.
- Van Delden or Mr. Puffer to the presentation?
- 4 Not specifically. But I know that
- it wasn't received in stony silence. We certainly
- did get questions and comments. But if you ask me
- who made what comment, I honestly cannot remember.
- 8 Q. Other than the recipients
- identified on Exhibit 16, did Ms. Boynton provide
- 10 any comment about the Oman item that we just
- talked about? 11
- 12 MS. WICKHEM: Object. Lack of
- 13 foundation.
- 14 MR. TUTTLE: To Mr. Barendregt?
- 15 MR. HABER: To Mr. Barendregt.
- 16 THE WITNESS:
- 17 Well, Ms. Boynton was not copied on
- my note, nor do I think she received a copy, at

- 1 with Ms. Boynton concerning the note that has been
- marked as Exhibit 16?
- 3 No. I have never met Ms. Boynton. A.
- 4 Same question with regard to Mr. O.
- 5 Watts. Did you discuss the note with Mr. Watts?
 - No. I never met Mr. Watts.
- 7 MR. BEST: Objection to form.
- Asked and answered.
- BY MR. HABER: 9
- 10 Q. Now, you did conduct another audit
- 11 of Oman.

- 12 Correct?
- 13 In 2003, yes. A.
- 14 Was that audit a part of the cycle, Q.
- 15 the four-year cycle that had been your practice?
 - As it happened, yes. Yeah. But I
- 17 think following my recommendation or my remark at
- 18 the end of 2002, even if it had been part of the
- cycle, then in order it would have been carried
- 20 out in Oman in the following year.
- 21 MR. FERRARA: Excuse me, Mr. Haber.
- 22 If you think you are going to be able to wrap up 0586
- 1 with 2003 and conclude your examination the next
- ten minutes or so, I would like to continue.
- 3 But in the event that you think
- that you are going to go longer than that, we have
- 5 been on for a little more than an hour and we may
- want to take a five-minute break.
- 7 MR. HABER: I think probably we
- 8 will be on for about ten to 15 minutes on 2003,
- and then I just have, as I mentioned earlier, one
- 10 small area that I do want to inquire into that I
- 11 don't anticipate longer than a half-hour, and
- 12 should take less.
- 13 MR. FERRARA: Well then, we should
- 14 take a break.
- 15 MR. HABER: That's fine.

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10	Case 3:04-cv-00374-JAP-JJH Document 341-7 Filed 10/10/2007	Page 323 of 325
13	MR. TUTTLE: In 2003?	
14		
15	THE WITNESS:	
16	\mathcal{C}	
17	,	
18		
19	,	
20		
21	1	
22 25	In addition, of course, we had the	
0589		
1	issue that we discussed before of the reserves	
2	guidelines having been tightened and, in	
3	particular, requiring a more strict hurdle before	
4	undeveloped reserves could be produced. And that	
5	also affected some of the proved forecasts for	
6	undeveloped reserves on PDO's books.	
7	And the net result was that proved	
8	developed and proved undeveloped forecasts for	
9	PDO were quite a lot less than what they were	
10	1	
11		
12	•	
13	Q. If you take a look at Exhibit 26?	
14	A. 26, yes, I have got it.	
15	Q. And if you could pull 27 aside as	
16	well, because we will get to it.	
17	Do you recall preparing this Draft	
18	Note?	
19	MR. BEST: Which one?	
20	MR. HABER: I am sorry. Exhibit	
21	26.	
22	THE WITNESS:	
059	90	
1	A. Yes. As I explained several times	
2	before, I was in the habit of preparing a Draft	
3	Note shortly before my completion of the audit.	
4	BY MR. HABER:	
5	Q. And do you recall who you	
6	distributed the Draft Note to?	
7	A. Not specifically. But in this	
8	case, I would have expected it to be Stuart	
O	Clayton	

9 Clayton.

Q. And do you recall, between proved developed and proved undeveloped, which made up a

- But that wasn't a development
- study. Meanwhile, PDO themselves were starting --
- 8 at that time were starting to set up a program of
- studies. 9
- 10 Q. And I am sorry. I just don't
- recall, when did the study that was conducted by 11
- 12 Stein Christiansen commence?
- 13 As I remember it, it must have been
- 14 somewhere around the middle of the year, May/June
- 15 thereabouts would have been my estimate.
- 16 Q. Now, if you could just turn to page
- 17 175, number 5 on the page. The first sentence
- reads, "There is mis-alignment between individual
- 19 field proved reserves and the corporate PDO
- 20 submission."
- 21 Was this a problem that existed at
- 22 PDO at the time you conducted your audit in 1999? 0594
- 1 A. I'll have to read the entire
- paragraph.
- 3 Okay. Please do. Q.