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ALBERTA ROYALTY REVIEW PANEL

Before Board Panel:

- Bill Hunter - Board Chairman
- Judith Dwarkin - Board Member
- Andre Plourde - Board Member
- Evan Chrapko - Board Member
- Ken McKenzie - Board Member
- Sam Spanglet - Board Member

HELD AT:

Medicine Hat College
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Volume XIII

APPEARANCES

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1 --- Upon commencing at 10:09 a.m.

2

3 THE CHAIRPERSON: Good morning, Ladies
4 and Gentlemen. Welcome everyone on behalf of the Royal
5 Review Panel. Thank you for your interest in Alberta's
6 royalty and tax Regime. Your input is a very important
7 part of our work and we appreciate your time and effort.

8 I'd like to take a couple of minutes to do
9 some housekeeping and introduce the Panel. On my far
10 right is Ken McKenzie; next is Sam Spanglet. I'm Bill
11 Hunter; next is Andre Plourde; Judith Dwarkin; and Evan
12 Chrapko.

13 Individual presenters will be allotted
14 five (5) minutes, followed by an opportunity for the
15 Panel to ask questions of clarification. Each
16 organization will be allotted ten (10) minutes and,
17 again, the Panel will take the liberties of asking
18 questions.

19 If you have brought a submission with you,
20 we would gladly accept it. There are secretariat people
21 around the room, as well as the reception desk outside.

22 If you haven't and you're thinking about
23 making a submission, the closing date is June 22nd. If
24 you go to our website albertaroyalreview.ca you will find
25 a series of mechanisms on how you can get your submission

1 to us.

2 From a safety point of view, there are
3 exits at the back of the room and to the right of the
4 Panel. Please make yourself aware of which door is
5 closer in case there's an emergency.

6 While our proceedings are underway, please
7 turn off your cell phones and your Blackberries, we don't
8 want any interruptions while the presentation is being
9 made.

10 The proceedings are being transcribed;
11 that does two things for us: It allows the Panel to
12 share with all Albertans what we've heard from the
13 presenters, as well as capturing adequately the exchange
14 during the question period.

15 If there's any media present, I'd be happy
16 to speak with you on behalf of the Panel at one of the
17 breaks. And I'd ask that you respect the space of the
18 Panel and the presenters during the proceedings.

19 Again, on behalf of the Panel and
20 Albertans, thank you very much for your interest and your
21 time.

22 Again, I appreciate the audience and the
23 presenters allowing us to get set up this morning.

24 First we will hear from Mr. Protti from
25 EnCana. Welcome, sir.

1 MR. GERRY PROTTI: Thank you, Mr.
2 Chairman.

3 THE CHAIRPERSON: I failed to point out
4 that I have a very strict young man at the far right-hand
5 side that has a series of cue cards to help you with time
6 management. He's fairly aggressive but I'll act as a
7 mediator on your behalf.

8 Thank you. Any time you're ready.

9

10 PRESENTATION BY ENCANA:

11 MR. GERRY PROTTI: Thank you very much,
12 Mr. Chairman. It's a pleasure to be here in Medicine Hat
13 to present to the Panel.

14 With me today is Richard Dunn, Vice-
15 President of Business Services and Stakeholder Relations
16 for the Foothills Division in EnCana.

17 I also wanted to indicate to the Panel
18 that we have a written submission that we'll be supplying
19 by the end of the week.

20 Now, we are well aware of the time
21 constraint here. We've got seventeen (17) slides, so,
22 we're going to move through them quite quickly and
23 hopefully, there will be time for questions afterwards.

24 The first slide is one our lawyers require
25 us to have. We won't ask anyone to read it at the moment

1 but it's there. Terms of advisory, given that we're
2 using future oriented information for EnCana.

3 EnCana has transformed itself since our
4 merger just over five (5) years ago, the merger of
5 Alberta Energy Company and Pan-Canadian. At that time,
6 we had a very diverse set of assets, not only on a
7 geological basis in terms of conventional and
8 unconventional, but also on a geographical basis spread
9 across the globe.

10 We have very much focussed on our core
11 area of technology expertise and unconventional resource
12 development in both natural gas and oil sands. And in
13 doing this, we've actually disposed of over \$13 billion
14 US in assets in the last five (5) years. So we have
15 focussed ourselves primarily on North America. We do
16 have some international assets in exploration. We're
17 moving gradually to unconventional.

18 But in doing this, one (1) of the key
19 factors for us - beyond our technology focus - was
20 identifying areas where we were comfortable with the
21 fiscal regime, the political and contractual stability.
22 So, that naturally leads us to North America.

23 Strategic focus, key resource plays, which
24 we'll discuss in more detail in a moment. We have to
25 maintain a sustainable level of growth. We, like other

1 companies, have experienced the boom-bust phenomena, so,
2 having that sustainable growth is important.

3 Managing costs, executing with excellence,
4 and primarily using technology to help us has been a real
5 focal point. And most recently, energy efficiency of
6 course is a real priority for us in this environment.

7 This map gives a snapshot of EnCana; where
8 our primary assets are. The circles that you see --
9 there's nine (9) of them in red -- define nine (9)
10 natural key natural gas resource plays, and two (2) in
11 green are oil. And we will discuss the Alberta ones in
12 more detail.

13 I think the primary thing here is we
14 define a key resource play as having a substantial
15 resource, at least a trillion cubic feet of natural gas
16 or equivalent and the capability to be developed at 200
17 million a day.

18 If you look at our land position, we have
19 27 million net acres but only seventeen (17) -- or 17
20 million of that is undeveloped. And that goes to one of
21 the themes that we want to address with you today, is
22 that we are still - even EnCana - at the early stages of
23 unconventional development and the stability of the
24 fiscal regime is very important.

25 There's the -- the inset map describes

1 Alberta in more detail. We've got 46,000 operated wells
2 in the province but we have 7 million net undeveloped
3 acres.

4 And just another statistic that's not on
5 the chart. Last year, we drilled thirty-six hundred and
6 sixty-two (3662) wells in Alberta; the largest operator
7 in the province. And since the formation of EnCana, we
8 have drilled over 25,000 wells in the province.

9 This next map focuses on our key resource
10 plays' capital. And the reason we focus that is that
11 when we look at our opportunities in North America, we do
12 focus on those nine (9) key gas resource plays and the
13 two (2) oil ones because that's our future.

14 We still have a significant number of
15 conventional assets.

16 We have what we call non-key resource
17 plays that don't meet that threshold of a TCF and 200
18 million a day, but when we look at where our capital is
19 going to be spent over the next ten (10) to twenty (20)
20 years, it's in these areas. So Alberta has about 43
21 percent of that total and you can see the distribution
22 for the rest.

23 At this point, our production has grown,
24 in terms of key resource plays, and we're now at about 68
25 percent of EnCana's production of gas and oil is from

1 those types of resource plays; 85 percent from resource
2 plays in total; and only 15 percent from conventional.

3 This chart represents analysis that we
4 have developed. I'm hoping you have a colour version.
5 The bubbles that you see in there are blue, and it
6 represents our estimate of impact on the Alberta economy.

7 The first thing I want to draw to your
8 attention is from the two (2) previous charts, there was
9 2 billion capital in key resource plays for Alberta for
10 2007. These numbers represent 2006. And there's three
11 (3) reasons why there's a difference in those numbers.

12 The first one is that with our transaction
13 with ConocoPhillips, half of the oil sands capital, about
14 half a billion dollars for 2007, is now paid for by
15 ConocoPhillips. So, that expenditure will still be made
16 in '07, but it's in the '06 numbers.

17 We did reduce our capital expenditures in
18 Alberta by about 400 million, '07 over '06. And finally,
19 what's not on the previous chart is our non-key resource
20 plays and our conventional capital, and that makes up the
21 difference between those two (2) numbers.

22 All this chart shows is that our
23 expenditure is touching every part of the province. We
24 have now broken down our capital and operating spend by
25 municipal district and we are -- we are -- have

1 investments in spending in sixty-one (61) of the seventy-
2 four (74) municipal districts in the province.

3 The numbers, in terms of GDP, labour,
4 income and employment are utilizing the finance
5 department's input/output model, both the open and closed
6 model, and that represents the range.

7 So clearly, beyond the royalties and the
8 direct payments to government, a significant spinoff
9 associated with our activity.

10 This next chart just describes pictorially
11 the characteristics of what we call resource plays. And
12 we do feel that they are not only Alberta's future but,
13 really, the future of resource development around the
14 world.

15 The chart on the right describes the types
16 of resource plays in Alberta that we're developing, and
17 so the most shallow ones are shallow gas. And you could
18 put beside there - we should have had it on the chart -
19 the Horseshoe Canyon development, which is in the 350 to
20 650 metres. SAGD, our bitumen development in northeast
21 Alberta. And the horizontal drilling that we're going to
22 use to develop the Mannville coal, and then finally the
23 deepest of the resource plays are the tight sands of the
24 deep basin play on the foothills in the Canadian Rockies.

25 The points on the left, just identify some

1 of the characteristics. There has to be huge resources
2 in place, so that we can use the economies of
3 development. Long life cycles, project management
4 planning is absolutely critical to make them economic.

5 We want to really stress the technology.
6 It's evolved a tremendous amount already in the last ten
7 (10) years, within the Province, the last twenty (20).
8 We still need further advances to get at areas like
9 Mannville coal, and other resources. These resources
10 have the characteristics of high initial declines, but
11 potential for long term stability.

12 And I guess the last point I'll make is
13 that we brought some cores to show the panel examples of
14 conventional versus non conventional rock, and we'll just
15 leave that for the break for people to look through.

16 We won't repeat what others have said to
17 this panel. Clearly, cost increases have the potential
18 to erode future economics, there's commodity price,
19 volatility, and there are a number of issues related
20 planned access.

21 So what's our view? Resource development
22 is just beginning, and we'll have the next chart we'll
23 get into that in more detail. We do feel that the Crown,
24 the way the ad valorem royalty in the case of gas, and
25 the fixed royalty for oil sands, do provide the

1 opportunity for the Crown to earn up front.

2 The next set of bullets in terms of
3 producer risks are those that we have to handle, we have
4 to manage, and we're prepared to discuss that in more
5 detail as required.

6 And then the second last set of bullets,
7 the government has had a tremendous track record in
8 history of providing that competitive and stable fiscal
9 conditions, and that'll be a key to continued development
10 of the resources in the Province. And, evermore
11 increasing the issues around environmental regulation are
12 important in the Province's great track record.

13 So, we see the current regime as actually
14 having -- not only providing great cash flow to the Crown
15 and to the people of Alberta but also, from our
16 perspective, has facilitated our transition from a
17 conventional to a non conventional. And more
18 specifically, items like the low productivity well
19 allowance that were designed at an earlier time have
20 served very much the development of low productivity,
21 shallow gas, and coal bed methane as an example.

22 This next chart, I want to spend a moment
23 on, Mr. Chairman. It's -- it describes notionally where
24 we see our resource placed in terms of maturity. And
25 what I think it re-enforces is that we see -- we see a

1 tremendous amount of future development that's underway.

2 So shallow gas is one that's the most
3 mature. We've been developing it for over thirty (30)
4 years. We've drilled to date over thirty (30) thousand
5 wells. We still have sixty-five (65) hundred wells to
6 drill, so we're about we consider 80 to 85 percent
7 development.

8 The next one is the Horseshoe Canyon. And
9 even though we have only been developing it for three (3)
10 or four (4) years, we already have drilled over twenty-
11 five (25) hundred wells. We see five (5) thousand more
12 yet to be developed, so, it's in the early stages primary
13 development and has some distance to go before it
14 matures.

15 The next one is Bighorn, which is the area
16 in the deep basin, along in the Rockies, near Hinton,
17 Grand Cash area. They are significantly less developed.
18 We've drilled one hundred and twenty-nine (129) wells to
19 date. We see in terms of our resource on our lands an
20 additional thousand to drill.

21 We move along to the Foster Creek, and
22 we've drilled thirteen hundred strat (phonetic) wells to
23 develop that bitumen project. Seventy-nine (79) well
24 pairs; yet to fully develop Foster Creek to its
25 potential, we'll drill another fifteen hundred well

1 pairs.

2 And you move along to Mannville, coal bed
3 methane where we've effectively just started thirty-two
4 (32) wells. We don't even know what the ultimate
5 potential is in terms of the number of wells, and
6 Christina Lake (phonetic), we've drilled eight (8) well
7 pairs. We will need about twelve hundred to develop that
8 resource.

9 So, early days, lots of potential yet to
10 come. This is a typical tight gas production profile.
11 We think applies to a lot of wells and resources that are
12 being developed. So, the Crown is getting some immediate
13 proceeds in terms of the land bonus. And then, as soon
14 as production starts, revenue flows to the Crown, and all
15 this illustrates is the steep decline curve associated
16 with these types of wells. And then, depending upon
17 prices, a number of years before they reach project
18 payout. So, industry return after about seven (7) years.

19 THE CHAIRPERSON: MR. Protti, your time's
20 expired. I wonder if you would like to go to page 17 of
21 your presentation and close for us.

22 MR. GERRY PROTTI: Sure. I'll just
23 mention on the way through that we have cashflow diagrams
24 for both Horseshoe Canyon and for SAGD, similar to the
25 diagrams that were in the CAPP document and we'd be happy

1 THE CHAIRPERSON: So if you'll allow us a
2 few questions.

3 MR. GERRY PROTTI: Absolutely.
4

5 QUESTIONS BY BOARD:

6 THE CHAIRPERSON: Ken...?

7 MR. KEN MCKENZIE: Yeah, thanks for the
8 presentation.

9 You mentioned the -- in passing, the
10 different approaches we take to imposing royalties on
11 conventional oil and gas versus the oil sands. The key
12 features being that although costs are not explicitly
13 accounted for in the conventional regime, we do so in an
14 ad hoc basis through low production allowances and also
15 through tier -- different rates for different tiers.
16 It's ad hoc so.

17 However, there is a sliding scale royalty
18 rate which is sensitive to prices.

19 MR. GERRY PROTTI: Right.

20 MR. KEN MCKENZIE: Oil sands on the other
21 hand we explicitly allow costs -- recognize costs,
22 certainly in the net regime, the 1 percent upfront we
23 don't but it's a fairly low rate, yet, the rate is flat
24 and is not flexible with respect to price.

25 Is there any underlying reason or

1 characteristics of the oil sands which suggest that the
2 royalty rate should not be flexible with respect to price
3 in a similar way that the conventional royalty system is?

4 MR. GERRY PROTTI: Yeah, I think the
5 characteristics of oil sands development with the high
6 upfront capital required --

7 MR. KEN MCKENZIE: Which are recognized
8 in the royalty formula.

9 MR. GERRY PROTTI: That's right. You
10 know, I think the -- the net profits interest after
11 payout does capture in times of high prices, higher
12 profit. So there is -- there is some price sensitivity
13 to the extent that prices are high, profits will be
14 higher and so the Crown does benefit from the higher
15 price.

16 You would be moving away, I think, from a
17 net profits interest-sharing concept if you were to then
18 say, well, let's put another factor in to change the --
19 the rate post-payout, you know, say from 25 percent to
20 something higher.

21 MR. KEN MCKENZIE: No, I would disagree
22 with you. In fact, you're still sharing the net profit
23 interest, all you're doing is changing the relative
24 shares.

25 The concept of net profit sharing is still

1 there because that's the base that you're applying the
2 rate to. So you're not moving away from that concept,
3 all you're doing is changing the share.

4 MR. GERRY PROTTI: Yeah, well --

5 MR. KEN MCKENZIE: Would you not agree
6 with that?

7 MR. GERRY PROTTI: That's exactly what
8 you're doing.

9 MR. KEN MCKENZIE: Right.

10 MR. GERRY PROTTI: But, you know, this --
11 this particular regime is well understood and, I mean,
12 obviously you can do that. It will impact how producers
13 look at individual projects and, you know, it will affect
14 the economics.

15 MR. KEN MCKENZIE: But there's no
16 underlying characteristic of the oil sands which suggests
17 -- I mean, that -- we have a sliding scale royalty rate
18 for conventional oil and gas, which you seem to be saying
19 is fine.

20 And now we have an oil sands regime which
21 has explicitly recognized costs and yet we don't have a
22 sliding scale rate there. So, I'm just -- I see a bit of
23 a disconnect in the logic.

24 Why is it okay for conventional but it's
25 not okay, for some reason, for oil sands, given that we

1 already recognize the costs upfront?

2 MR. GERRY PROTTI: I mean, you can
3 absolutely construct that. All -- all I'm saying is that
4 at the end of the day, under different scenarios, you
5 have to understand what the implications are in project
6 economics.

7 MR. KEN MCKENZIE: Yeah, of course.

8 MR. GERRY PROTTI: And -- and it -- you
9 know, I think we've seen some evidence recently where oil
10 prices have increased but so have costs, particularly in
11 the oil sands.

12 And so the question then is: Would -- is
13 there actually more economic rent to capture at that
14 time. It may be that prices are up but you could -- you
15 could argue that perhaps there's less economic rent given
16 costs have risen.

17 MR. KEN MCKENZIE: Yeah, I understand
18 that, but I don't want to belabour the point. But the
19 system already takes into account those higher costs by
20 allowing them as a deduction. So you're quite right;
21 if costs go up those are recognized in terms of lower
22 royalties. We're talking about the share that goes to
23 the Crown versus the company after those costs have been
24 recovered.

25 MR. GERRY PROTTI: Well, there's no --

1 MR. KEN MCKENZIE: So, yes, there may be a
2 reduction in economic rent associated with higher costs
3 that's --

4 MR. GERRY PROTTI: Well, there's no
5 question --

6 MR. KEN MCKENZIE: -- completely captured
7 in the system.

8 Okay. Thank you very much.

9 THE CHAIRPERSON: Judith...?

10 MS. JUDITH DWARKIN: Thank you. Good
11 morning.

12 I have one question of clarification on a
13 couple of the slides that you didn't have a chance to get
14 to. They're the pie charts on page 13 and then on page
15 16.

16 Are those returns -- are those cumulative
17 or dis -- what are --

18 MR. GERRY PROTTI: Those --

19 MS. JUDITH DWARKIN: -- what are the
20 units?

21 MR. GERRY PROTTI: Those represent the
22 stream of project revenues. The -- so the after tax
23 cashflow that's flowing to the producer. So that's not a
24 return in an ROI sense, that's -- that's the -- the
25 discounted total of the after tax cashflows to the

1 producers.

2 So if you look at the previous chart, the
3 Horseshoe Canyon, it is the -- the discounted cumulative
4 industry revenue line. The red line.

5 And so, you know, that's -- that's the
6 after tax cashflow from the project, you know, required
7 for the corporate capital and GNA --

8 MS. JUDITH DWARKIN: Okay.

9 MR. GERRY PROTTI: -- and funding next
10 year's capital program.

11 MS. JUDITH DWARKIN: Can you translate
12 the producer return in both cases to an IRR-type measure?

13 MR. GERRY PROTTI: Yeah. The IRR in this
14 Horseshoe Canyon example is about 21 percent. And in the
15 case of the SAGD project, it's about eighteen (18).

16 MR. RICHARD DUNN: Fifteen (15) actually.

17 MR. GERRY PROTTI: I'm sorry. Fifteen
18 percent.

19 MS. JUDITH DWARKIN: Thank you. And does
20 the Horseshoe Canyon example, does it include your
21 freehold land or do you have freehold land in that area?

22 MR. GERRY PROTTI: Yes.

23 MS. JUDITH DWARKIN: And the economics
24 include that?

25 MR. GERRY PROTTI: Yes, it's freehold

1 mineral tax.

2 MS. JUDITH DWARKIN: Okay. Now, just
3 something totally different. You --

4 MR. RICHARD DUNN: To clarify. It -- but
5 we haven't allotted a return to ourselves in terms of
6 some sort of a lesser royalty or anything like that. Not
7 in our return. If that's what you're --

8 MS. JUDITH DWARKIN: Your return is after
9 the freehold mineral tax?

10 MR. RICHARD DUNN: Right. But -- right.
11 Exactly.

12 MR. GERRY PROTTI: Yeah, the direct
13 government payment is a freehold mineral tax payment.

14 MS. JUDITH DWARKIN: Okay. It's just
15 subsumed into that category.

16 Aside from the low productivity allowance,
17 you acknowledge is a useful device with respect to
18 encouraging the economics of the shallower coal bed
19 methane wells.

20 Is there anything else you'd like to
21 recommend with respect to enhancing the economics of
22 those particular kinds of resource plays?

23 We've had speakers in previous sessions
24 who have actually in some cases recommended more, you
25 know, targeted incentives or special programs. And some

1 others have said, No, the low productivity allowance we
2 think works adequately for this kind of resource.

3 MR. GERRY PROTTI: Well, the -- the
4 development will occur with the current regime unchanged
5 at the pace suggested by the economics. If the province
6 were to feel that they wanted to accelerate, for example,
7 the next -- the next round of coal bed methane
8 development -- I'm thinking particularly in Mannville
9 Coals where you're dealing with a lot of water handling
10 relative to the Horseshoe Canyon, you know, I think you
11 could look at mechanisms in the gas cost allowance to --
12 to capture that.

13 Again, I think it's understanding the
14 economics of the projects to understand if such a support
15 is needed.

16 MS. JUDITH DWARKIN: Specific --

17 MR. GERRY PROTTI: We -- I was just going
18 to say, we see Mannville development as -- as the next --

19 MS. JUDITH DWARKIN: The big --

20 MR. GERRY PROTTI: -- way of the future.
21 Given the uncertainty around commodity prices, the pace
22 of development, I think, will be slower than what people
23 anticipated two (2) years ago when we had the gas price
24 spikes.

25 MS. JUDITH DWARKIN: Right. And

1 specifically on the gas cost allowance, you're suggesting
2 the water handling costs be factored in?

3 MR. GERRY PROTTI: Yes.

4 MS. JUDITH DWARKIN: For Mannville.

5 Yeah.

6 Okay. Thanks.

7 THE CHAIRPERSON: Sam...?

8 MR. SAM SPANGLET: Good morning.

9 MR. GERRY PROTTI: Good morning.

10 MR. SAM SPANGLET: First of all, I'd like
11 to congratulate you for you and your people to create
12 such a premier company. EnCana is a premier company.
13 And there's good news and bad news in that because you
14 guys are a benchmark; you know, everybody looks at the
15 way you do things, they want to copy you, and that's why
16 I'm coming to the costs thing -- including on the cost
17 side.

18 And I thought I'm not going to ask
19 questions about costs today anymore but since you brought
20 it up, I'd like a little clarification here.

21 I have difficulties -- first of all, I'm a
22 free market guy, so what you guys -- oil companies do
23 with costs is their business. But I have difficulties
24 to link it to royalties, which is the Albertans sort of
25 share.

1 And the cost side is controlled. And one
2 of the comments I heard in the oil patch, because I'm
3 connected to the oil patch myself, is EnCana is leading
4 the way by increase of manpower costs. And everybody is
5 trying -- and you're the benchmark, as I said upfront, so
6 everybody got to copy you. So it keeps going up. So the
7 controllable side of the costs, what do you say to this?

8 I know some people were whining to me
9 about seven (7) weeks vacation and every Friday off and
10 that, obviously, translates itself to lower productivity
11 and people are moving from one company. Like, the whole
12 thing is pushing up.

13 The point I'm trying to make, it's the oil
14 company's prerogative to do whatever you want with cost,
15 it's none of my business really only as a shareholder it
16 is, and I am a shareholder by the way, but, I just want
17 to hear your reaction to it.

18 MR. GERRY PROTTI: Yeah. The -- I mean,
19 clearly for us when we speak to our investors and to
20 analysts, cost control is something we have -- that's
21 number 1 in our agenda.

22 So they want to understand that -- how are
23 we spending our capital dollars; are we really seeing the
24 best -- maximizing the value from those capital
25 expenditures. Then on the operating costs side, as you

1 know, they have this very rigorous metrix where companies
2 are compared to their peer groups. And -- and so we --
3 we definitely have a focus on that.

4 We have increased our, -- things like the
5 Friday off, and more recently, vacation for our employees
6 but that's actually part of our strategy. There is a war
7 for talent out there and we recognize that people want
8 the work life balance. If anything, we think that it
9 increases productivity rather than decreases it. And so,
10 we're balancing all of that on a continual basis.

11 And then the other area on the cost side
12 is -- is the technology. Is the investment in -- in new
13 technologies, working with our companies in the service
14 industry together, in partnership, to develop the
15 technologies required to develop the resource. And if
16 you look at the type of drilling, the type of completions
17 required to develop an unconventional gas well today
18 versus five (5) to ten (10) years ago, there -- it's
19 night and day.

20 And -- and without those cost -- without
21 those technology improvements, our costs would be at a
22 point where we couldn't develop these resources. So, we
23 certainly hear that -- those types of comments but we do
24 our best to make sure that cost is -- is one of the best
25 metrix.

1 And in terms of our operating costs, our
2 operating costs run the lowest in the industry, so we
3 feel we compare well with the peers.

4 MR. SAM SPANGLET: Now, I do -- I do
5 understand that. It's as I said before, it's not -- it's
6 a free market, it's your business what you do with wages
7 and, you know.

8 But, what I'm saying is that it's -- I was
9 myself an executive, I just retired, and I'm also sort of
10 guilty -- what I believe the -- the whole cost structure
11 that is located in Alberta is our own fault.

12 MR. RICHARD DUNN: Just a --

13 MR. SAM SPANGLET: Our own fault, we've
14 done that. And I would have -- I feel uncomfortable when
15 we connect the cost to the royalties when it's all our
16 fault. Me included but it's -- we're there.

17 The second question is about the
18 environment side. Greenhouse gases, which is a concern
19 to all of us and yourself too, what -- what's your
20 outlook on this one? How do you feel -- should it be
21 sort of encouraged, discouraged by royalties or should it
22 be a separate type of issue altogether? What's your
23 feeling about it?

24 MR. GERRY PROTTI: So two (2) questions,
25 and I'd like to just come back to the costs one --

1 MR. SAM SPANGLET: Okay.

2 MR. GERRY PROTTI: -- one more time, and
3 I'm going to ask Mr. Dunn to supplement that and then
4 we'll come to the greenhouse gas.

5 MR. SAM SPANGLET: Okay.

6 MR. GERRY PROTTI: On the cost side, I
7 think that, -- you know, there's no question we've had
8 that inflationary effect within the economy but I do
9 think that the government and through the Crown, and
10 producers are aligned, we all want to have the most
11 economic, the most profitable.

12 To the extent we get the most profitable
13 projects and operations, the return to the Crown in terms
14 of the royalty payments where it's a direct deduction, as
15 in the oil sands --

16 MR. SAM SPANGLET: Yeah.

17 MR. GERRY PROTTI: -- as we discussed,
18 it's directly aligned.

19 And also in terms of the income tax
20 system. We -- we increase our profits our income taxes go
21 up. So I think that -- that alignment is there and the
22 royalty system does try to capture economic rent which
23 includes, you know, as after costs. So they are -- you
24 know, otherwise you go to something that's a very fixed,
25 absolute percentage of gross revenue.

1 MR. SAM SPANGLET: Yeah.

2 MR. GERRY PROTTI: And we've had those --
3 we've had those royalty systems in the past in the
4 province.

5 Richard, on the costs.

6 MR. RICHARD DUNN: Yes, Sam, just want to
7 add, there's no doubt on the unconventional resources
8 cost management to make them viable is everything.
9 Certainly with the technology driving down cost but some
10 of the things -- and we certainly recognize - and Jerry
11 had mentioned in there - the need for project management
12 and a lot of very good sophisticated project management
13 with a number of wells we're drilling you utilize that to
14 a great extent.

15 What we have focussed on as well is
16 spreading out our activity throughout the course of the
17 year, load levelling and we find that that's a very very
18 effective way of managing our costs. We can offer,
19 again, year round activity to our suppliers, we focus
20 very much on local suppliers as the bubbles show.

21 But, with resource plays and the
22 development of the unconventional plays, these are long
23 term plays as some of our cash flow indicated the amount
24 of activity that we have and that we are looking at
25 offering multi-year deals to various suppliers and that

1 gives them the stability, it gives us the stability, the
2 certainty of the -- on the cost side and manage our
3 economics that way. So, a very very important part of
4 it.

5 MR. SAM SPANGLER: Thanks.

6 MR. GERRY PROTTI: Just on the greenhouse
7 gas question, could I call up slide 16? Just the
8 --- this is the one on --- this is, this is effectively
9 Foster Creek or SAGD Technology, 60 percent of that
10 operating cost is natural gas. When you burn the natural
11 gas you're producing a lot of emissions, so, we have ---
12 we're focussing on down-hole technologies to improve the
13 productivity from the reservoir, so, special pumps that
14 handle hot abrasive fluids more efficiently of really
15 making sure that we're doing everything we can to reduce
16 our steam/oil ratio.

17 Our steam/oil ratio at Foster Creek is the
18 best in the business, that reduces our emissions and
19 longer term we're going to have to find solutions to
20 replace natural gas and to find alternative fuels and in
21 doing so, it will reduce our costs, increase the
22 profitability.

23 So, I actually think the greenhouse gas
24 issue as it relates to oil sands is in many ways already
25 captured through the royalty system.

1 MR. SAM SPANGLER: Thanks very much.

2 THE CHAIRPERSON: Evan...?

3 MR. EVAN CHRAPKO: Thanks for your
4 presentation. I'm trying to reconcile a couple of your
5 answers segue into two (2) different of my questions.

6 The reconciliation I'm after is to what
7 extent, if any, does the fact that costs are allowed,
8 we've heard a lot of reference to costs and you're in a
9 good position to answer whether or not we all together as
10 tax payers and citizens of the province amount to co-
11 investors in that technology by allowing the costs.

12 I mean, how much -- besides whatever you
13 might be claiming in the way of R&D or credits in regards
14 to the corporate income system that way. Do you see that
15 -- is it correct for us to think of your investments in
16 technology as something that we're subsidizing? Or is
17 that just a cost of doing business? R&D and perpetual
18 improvement in terms of efficiency and what you just
19 mentioned on slide 16?

20 MR. GERRY PROTTI: So we're talking oil
21 sands here in terms -

22 MR. EVAN CHRAPKO: Both. You've touched
23 on technology in several aspects of your presentation.

24 MR. GERRY PROTTI: Yep. So in terms of
25 the technology development, let's take SAGD as an example.

1

2 So, the original concept in terms of steam
3 assisted gravity drainage was developed in -- as
4 partnership between several companies. It involved the
5 Alberta government directly through an organization called
6 AOSTRA Alberta Oil Sands Technology Research Authority.
7 But that was just the conceptual development.

8 And there was direct government funding as
9 there was industry funding as well. But it really took
10 projects like Foster Creek, the work we did at Senlac to
11 really understand resource, and understand how we can
12 apply the technology more effectively.

13 So what does the royalty system do to
14 recognize that? There's no question that every one of
15 those dollars goes into your payout calculation, and
16 delays as your testing, piloting new approaches, delays
17 project payout.

18 Throughout that time period the -- the --
19 the company is not making any profit. It's in a negative
20 cash flow position. The Crown is receiving, to the extent
21 that it's production, that 1 percent gross royalty.

22 So, there is a payment to the Crown, the
23 owner of the resource, the people of Alberta reflecting
24 that, you know, a valuable nonrenewable resource is being
25 produced. One payout occurs then and what was selected

1 was a 25 percent rate net of costs as the appropriate
2 share.

3 Now, if costs were higher and there is
4 more technology being developed, there is a sharing by
5 the Crown of that because the net profit is lower of that
6 expenditure. But that's the type of expenditure required
7 to develop -- maximize development of -- the long-term
8 development of the resource, all elements of it.

9 So it is a sharing mechanism. Whether
10 that rate is appropriate or not is -- is for you to
11 determine as a panel.

12 MR. EVAN CHRAPKO: So you're saying as a
13 landlord, we're helping you to help us get the maximum
14 out of the basin?

15 MR. GERRY PROTTI: Absolutely.

16 MR. EVAN CHRAPKO: And then the second
17 question I have, which takes a different direction
18 altogether, so unrelated. Technology is the question of
19 the marginal players.

20 EnCana, as a large and hefty player in
21 this basin, with a deep balance sheet, may or may not be
22 affected as much by price swings or the volatility in
23 terms of the commodity markets.

24 Should -- in your opinion, should it be
25 the worry of the royalty system and the corporate income

1 tax system to prop up the marginal players, your
2 competitors around the edges, or your smaller neighbours
3 in some of these plays?

4 MR. GERRY PROTTI: Well, there is --
5 there has historically been that element in the royalty
6 system -- the Alberta Royalty Tax Credit and there is --
7 there is a lump sum -- what's it called? For the
8 freehold mineral tax.

9 MR. RICHARD DUNN: Some sort of
10 deduction, I'm not sure of the name.

11 MR. GERRY PROTTI: Yeah. There's a
12 deduction which removes the requirement for a freehold
13 mineral tax payment for people who have freehold land,
14 who have very small production. And I think there's --
15 it takes out over two-thirds (2/3). It was actually -- I
16 didn't realize what the number was, I saw it in your
17 background papers that you produced on freehold mineral
18 tax, but it takes out the majority of individuals who
19 were at that small end of the scale.

20 So I think the system has had in the past.
21 We don't really have an opinion on it. We're -- we're
22 just using the system as we understand it for a company
23 of our size.

24 MR. EVAN CHRAPKO: Thank you.

25 THE CHAIRPERSON: Andre...?

1 MR. ANDRE PLOURDE: Thank you for your
2 presentation and I look forward to reading the material
3 when it gets to us.

4 A few things if I may. In terms of you
5 have a number of slides that show full cycle cashflow
6 analysis of various projects. I guess I'm going to ask
7 whether or not these are actual projects or illustrative
8 of what would happen.

9 MR. GERRY PROTTI: The -- they're based
10 on actual in terms of -- and we'll give you some more
11 details on these two (2) with actual data, but they're
12 obviously pro forma illustrative in terms of go forward,
13 but would be our best estimate at this time.

14 So in the Strathmore one, for example, we
15 are there with partners; this is not strictly an EnCana
16 development.

17 MR. ANDRE PLOURDE: Right.

18 MR. GERRY PROTTI: And I think you
19 received a presentation from Quicksilver. Quicksilver
20 would be our partners in Strathmore. So those who
21 represent our -- the green bars are actual capital and
22 operating costs to 2006, and then with pro forma
23 estimates of how we think the reservoirs will perform,
24 the individual well -- so the overall Horseshoe Canyon
25 play and with our estimates of costs and prices,

1 obviously, and all the assumptions that go into that.
2 And we -- we can certainly provide all of that detail
3 that you require.

4 MR. ANDRE PLOURDE: Because this is not a
5 single well, this is a --

6 MR. GERRY PROTTI: No, this --

7 MR. ANDRE PLOURDE: -- a development of
8 a --

9 MR. GERRY PROTTI: -- this actually
10 represents --

11 MR. ANDRE PLOURDE: -- project. Okay.

12 MR. GERRY PROTTI: This actually
13 represents --

14 MR. ANDRE PLOURDE: Right.

15 MR. GERRY PROTTI: -- and, Andre, I'll
16 just give you some of the data on that. So for the
17 Strathmore area, Horseshoe Canyon. So that's slide 12.

18 MR. ANDRE PLOURDE: Yeah.

19 MR. GERRY PROTTI: This is twenty-four
20 hundred (2400) wells, fifteen (15) townships of
21 development, about six hundred (600) sections of
22 development and, again, we can -- we can provide further
23 detail on that.

24 MR. ANDRE PLOURDE: Sure.

25 MR. GERRY PROTTI: On the SAGD project,

1 that was modelled off Foster Creek.

2 MR. ANDRE PLOURDE: Okay.

3 MR. GERRY PROTTI: And it represents
4 about \$11 billion Canadian investment. Sixteen hundred
5 (1600) well pairs and then approximately, I think,
6 200,000 barrels per day at -- at peak production and held
7 at that level.

8 MR. ANDRE PLOURDE: Okay. Now I'm
9 assuming that is not freehold? The SAGD project is not a
10 freehold? It's not on your freehold land. The
11 assumptions in this don't look like freehold.

12 MR. GERRY PROTTI: It's on Cold Lake Air
13 Weapons Range.

14 MR. ANDRE PLOURDE: Thanks. One of the -
15 - and both of these --

16 MR. GERRY PROTTI: And -- and I was just
17 going to say --

18 MR. ANDRE PLOURDE: Sure.

19 MR. GERRY PROTTI: -- the reason why we
20 call it typical is -- that's probably the wrong word,
21 there's no such thing as a typical, but it's typical in
22 terms of the type of pattern.

23 MR. ANDRE PLOURDE: Okay.

24 MR. GERRY PROTTI: Christina Lake, when
25 we develop it, will have a similar pattern but will have

1 different elements.

2 MR. ANDRE PLOURDE: Right.

3 MR. GERRY PROTTI: Borealis will have
4 different elements, different operating costs and that,
5 but the same type of pattern in terms of the upfront
6 capital exposed.

7 MR. ANDRE PLOURDE: Okay. One thing on
8 both of these, in some sense, in the early years you've
9 got capital costs and some small operating costs along
10 the way. You would get from this kind of generate
11 corporate income tax deductions.

12 How are these factored into the analysis?

13 MR. GERRY PROTTI: So all of this
14 analysis is after tax cashflow. So, the assumption I
15 believe - and I'll ask Richard to confirm - but I assume
16 it's full flow-through taxation --

17 MR. RICHARD DUNN: I believe --

18 MR. GERRY PROTTI: -- for the project.

19 MR. RICHARD DUNN: No, I believe it would
20 be on a project basis.

21 MR. GERRY PROTTI: Sorry. Project tax.

22 MR. ANDRE PLOURDE: So it's a project

23 base -- MR. RICHARD DUNN: And that's why --

24 MR. ANDRE PLOURDE: -- and that's why you
25 have a red bar at tax, and you deferred the tax until the

1 tax -- until you generate revenues?

2 MR. RICHARD DUNN: Yes, that's correct.

3 MR. ANDRE PLOURDE: That's not how it
4 would work?

5 MR. RICHARD DUNN: No, it's not, but it
6 is --

7 MR. ANDRE PLOURDE: Right.

8 MR. RICHARD DUNN: -- how we evaluate the
9 projects.

10 MR. ANDRE PLOURDE: Sure, that's right.

11 MR. RICHARD DUNN: And it's consistent
12 without -- throughout the industry. This is how projects
13 are decided upon funding so.

14 MR. ANDRE PLOURDE: Sure, I don't
15 disagree, but that's not how it would work in your --

16 MR. RICHARD DUNN: Yes.

17 MR. ANDRE PLOURDE: -- in managing your
18 portfolio projects, you would kind of manage your tax
19 deductions.

20 MR. RICHARD DUNN: Absolutely.

21 MR. ANDRE PLOURDE: Okay, thanks.

22 Two (2) more questions if I may. First in
23 terms of Mannville. You talked about this in terms of
24 new technology.

25 How transferrable is the technology from

1 one project to another? In terms -- what do you think at
2 this stage?

3 MR. GERRY PROTTI: Well, the -- what we
4 found with -- what we found with both Horseshoe Canyon,
5 with Mannville, is there are -- there are so many analogs
6 that you come to the conclusion that every one of these
7 coal seams is unique in terms of its characteristics.

8 So when we first began to develop the
9 Horseshoe Canyon, we were using drilling and completions
10 techniques that were not optimized to the coal seam. So
11 -- and we ended up with nitrogen fracs, for example --

12 MR. ANDRE PLOURDE: Right.

13 MR. GERRY PROTTI: -- that we hadn't
14 utilized to any large extent.

15 With Mannville, I think the -- so the
16 basic principles are there but you're going to have to
17 tailor your approach, your strategy, with respect to the
18 reservoirs once you've done some experimental wells and
19 then the pilot wells.

20 Do you want to talk about some of the
21 specifics with the Mannville --

22 MR. ANDRE PLOURDE: No, I think it's
23 okay. Just to understand -- I don't really need to get
24 into the details of the technology because I wouldn't get
25 there.

1 MR. GERRY PROTTI: Yeah.

2 MR. ANDRE PLOURDE: But I think it's the
3 notion of how transferrable the material is; that would
4 be useful, just a general.

5 MR. RICHARD DUNN: Just to talk to that,
6 Andre.

7 Mannville will be drilling with horizontal
8 wells. And absolutely this horizontal well drilling
9 technology is going to make the play and it's been
10 transferred from other plays that we -- that we have
11 worked. SAGD would be a great example. We are taking
12 the same drillers that had their SAGD horizontal well
13 experience, where they're placing a well within a metre
14 on the vertical, and transferring that over to these
15 relatively thin Mannville coal seams.

16 MR. GERRY PROTTI: Which hasn't been done
17 before.

18 MR. RICHARD DUNN: Absolutely. So it is
19 a great example of one technology developed for an
20 unconventional play transferred over. It was a good
21 question.

22 MR. ANDRE PLOURDE: Okay. Good. Thanks.

23 Last thing is on your last slide. Your
24 last line of your last slide. You talk about maximizing
25 the Alberta public interest.

1 Could you kind of -- what does that mean
2 to you?

3 MR. GERRY PROTTI: The -- that's a great
4 question. The -- and it is difficult to define. I guess
5 when we look at that, the Alberta public interest is
6 obviously having return to the development of the
7 resource that allows for hospitals and schools and all
8 the funding that the general revenue fund provides.

9 It's having an environment that is
10 protected and allows all options, as many as possible, to
11 continue in the future in terms of the use of the surface
12 of the land. It also allows a healthy level of economic
13 activity that provides the jobs that people need to -- to
14 maintain -- be gainfully employed.

15 So all of those factors enter into it and
16 it's a continuous balancing act in terms of trying to
17 maximize those elements.

18 MR. ANDRE PLOURDE: Great. Thank you.

19 THE CHAIRPERSON: Q1 '07 was a good
20 quarter for EnCana?

21 MR. GERRY PROTTI: Yes.

22 THE CHAIRPERSON: Really good or one of
23 the best?

24 MR. GERRY PROTTI: I don't have the
25 numbers right in front of me. I think we can certainly

1 get those but a very healthy quarter. And last year was
2 our highest profits for '06.

3 THE CHAIRPERSON: Just recently we've
4 heard that the US Feds are going to initiate a royalty
5 review for the United States.

6 Can you speculate what might have driven
7 them to make that decision?

8 MR. GERRY PROTTI: Well, it's -- we can
9 certainly speculate and I'd be happy to comment on that.
10 It's an excellent question because we have never seen as
11 many pieces of energy legislation in the Houses of -- the
12 House Representatives and the Senate than we see right at
13 the moment.

14 Many of these are driven by environmental
15 issues; many are being driven by a sense that there's --
16 gasoline prices are too high. There are a lot of
17 political factors.

18 What we're not seeing that had been kind
19 of the hallmark of the administration's policy to this
20 point was domestic supply development.

21 The current Democratic Houses, Mr.
22 Chairman, are focussed very much on those other issues,
23 so, it's a -- it's a very political environment; it's one
24 where both Houses of Congress are in -- in conference.
25 And what we'll see out of it, we're not sure.

1 THE CHAIRPERSON: Just one quick
2 question, because I am running behind as the Chair and I
3 need to kick my own butt.

4 This political environment that you're
5 speaking to, does that have an impact on investment in
6 the United States for your company? Does it --

7 MR. GERRY PROTTI: You know, I think that
8 our -- our assumption would be as EnCana that in North
9 America these debates will always have a balance in them.
10 And when we look at the declines rates in onshore and
11 offshore conventional resources in the US, in particular,
12 under any scenario, under any political environment, the
13 US is going to require as much energy as it can develop.

14 So, that gives us a high degree of
15 confidence that these debates will occur, it will all be
16 balanced. And whatever legislation and changes come
17 forward won't lose sight of it; won't make projects
18 uneconomic under the current price regime. So we have a
19 high degree of confidence we'll be able to continue
20 investing.

21 THE CHAIRPERSON: Thank you both for your
22 presentation this morning.

23 MR. GERRY PROTTI: Thank you.

24 THE CHAIRPERSON: We appreciate it.

25 Next we have an opportunity to hear from

1 Mr. Soucy, Petroleum Services Association of Canada.

2 I'll allow you to get set, sir.

3 Welcome, sir.

4

5 PRESENTATION BY PETROLEUM SERVICES ASSOCIATION OF CANADA:

6 MR. ROGER SOUCY: Thank you. Good
7 morning.

8 And on behalf of our organization, I'd
9 like to thank the Panel for the opportunity to present
10 here in Medicine Hat as our choice location for --
11 really, because of the nature of the organization we are
12 and the members that we represent.

13 My name is Roger Soucy, I'm the President
14 of the Petroleum Services Association of Canada. With me
15 today on my right is Frank Tirpak, the President of
16 Lonkar Services and the first vice Chair of PSAC. Our
17 Chairman is not here today because we lost him early in
18 June; he was transferred to Moscow. I don't know what he
19 did to deserve that, but...

20 Directly behind me is David Yager, the
21 Chairman and CEO of HSE Integrated Limited and a director
22 of the Association as well as Elizabeth Aquin, senior
23 vice-president with the staff of PSAC.

24 PSAC is a national organization
25 representing the service supply and manufacturing sectors

1 within the upstream petroleum industry.

2 And, again, I'd like to thank the Alberta
3 Royalty Review Panel for the opportunity to present this
4 paper on behalf of the entire service and supply sector.

5 I would like to point out that PSAC has
6 submitted a more detailed paper to this Panel. That
7 paper provides the references for the data in this
8 presentation and elaborates on the points I'm going to
9 make today.

10 In my presentation this morning, I'm going
11 to start by providing a brief overview of the petroleum
12 services, supply and manufacturing sector, then I'm going
13 to summarize the benefits realized from the petroleum
14 industry in this province. And, finally, I'm going to
15 highlight some of the impacts increased royalty rates
16 could have on the livelihoods of people working in the
17 industry.

18 Petroleum service, supply and
19 manufacturing companies contract almost exclusively to
20 oil and gas explorers and producing companies providing
21 them with valuable services that keep the petroleum
22 industry operating.

23 Many Albertans do not realize there are
24 more than three (3) dozen different services needed to
25 drill, complete and maintain oil and gas wells.

1 These services include contract drilling
2 rigs, drilling fluids, wire line, fracturing,
3 perforating, cementing, well testing, snubbing,
4 transportation, construction, safety environment
5 services, as well as equipment supply and manufacturing,
6 just to name a few.

7 Companies offering these services operate
8 in and between virtually every community in the province,
9 from Rainbow Lake to Medicine Hat, Lloydminster to Grande
10 Prairie. Wherever there is oil and gas activity in
11 Alberta, there are petroleum service companies, owners
12 and employees. In fact, PSAC estimates that more than 80
13 percent of the service sector's employees live and work
14 outside of a major centre like Calgary.

15 Currently two hundred and fifty-eight
16 (258) - that's more than 95 percent - of PSAC's member
17 companies are Alberta-based. Together, PSAC members
18 employ 68,000 people, and that's only about half the
19 total number of people involved in the sector.

20 These people live and work in small towns
21 and cities in every corner of Alberta. They pay taxes,
22 they vote, and they spend their disposable income here.

23 These people and their families are living
24 proof that the Western Canadian oil and gas industry
25 isn't just about big oil corporation, it's about people,

1 ordinary people.

2 As a result, any decisions made that
3 affect Alberta's petroleum industry, like changes to the
4 royalty structure, must be made with people - not just
5 corporations in mind.

6 We know that Alberta counts on non-
7 renewable resource revenue to fund its many programs and
8 services. This revenue comes directly from royalties,
9 land leases, fees, corporate taxes paid by companies in
10 the petroleum industry.

11 Further, the industry is responsible for
12 creating and sustaining thousands of well-paying jobs in
13 this province and country. According to a recent study
14 by Stats Canada employment in the upstream petroleum
15 industry increased 64 percent over the past ten (10)
16 years; more than three (3) times the average employment
17 growth in a country.

18 Of the 177,000 people directly employed in
19 the upstream petroleum industry, 75 percent live in
20 Alberta. The people working in the -- in this industry
21 in Alberta can earn about thirty-eight dollars (\$38) an
22 hour, almost double what workers in other industries make
23 across Canada.

24 An additional ninety-eight thousand
25 (98,000) people work in jobs that support the industry;

1 an increase of 88 percent from ten (10) years earlier.

2 Because of the petroleum industry, people
3 are operating and working in hotels, restaurants, car and
4 truck dealerships, coffee shops, retail stores,
5 technology, construction, communication companies, banks
6 and finance companies, even law and accounting firms,
7 safety and environmental safety firms, and many more
8 services. And all these people are paying their fair
9 share of provincial income taxes, boosting the
10 government's total share from the oil and gas industry.

11 Even Albertans who have nothing to do with
12 the industry benefit in the Alberta advantage which has
13 been made possible by the efforts and commitment of the
14 petroleum industry. The statistics on this slide are
15 proof of that.

16 Viewed from any angle, the industry and
17 the system that it works within are clearly working.

18 The oil and gas industry is operating
19 fully in the province, employing hundreds of thousands of
20 people and paying billions to the government.

21 In turn, the government is using its
22 substantial annual non-renewable resource revenues and
23 other tax revenues to fund programs and infrastructure
24 that benefit all Albertans.

25 Even so, some still say it's not enough.

1 Some say the government shares, specifically from
2 royalties, should be higher.

3 But I stress to you today that increasing
4 royalty rates is not a simple process that only affects
5 big oil and gas corporations. The fact is, seemingly
6 small changes like royalty increases can have large
7 unintended consequences. Its trickle-down effect that
8 happens quicker than one might imagine. Increased costs
9 or even cost uncertainty can cause the industry to rein
10 in activity. Less activity means reduce provincial
11 revenue from the industry. And any retraction in
12 activity levels has a direct and immediate impact on the
13 thousands of people working in the service sector and
14 their families.

15 When producers curtail activity, service
16 companies close outlets, lay off staff, and send their
17 equipment elsewhere. That results in increased
18 unemployment in the province which then leads to reduced
19 royalty revenue -- provincial revenue from income taxes
20 and decreased personal disposable income to be spent in
21 Alberta, and an overall erosion of the Alberta advantage.

22 I mentioned earlier that PSAC members
23 represent two hundred and fifty-eight (258) companies in
24 Alberta; that is an estimate but there is -- it is an
25 estimate that there upwards of three thousand (3,000)

1 service companies operating all over the province,
2 including hundreds of small mom and pop operations. To
3 survive, these entrepreneurial operations rely on a
4 vibrant local petroleum industry and a stable fiscal
5 framework.

6 Increased royalties and their resulting
7 impacts on the industry's activity levels would have a
8 negative and potentially dangerous, disastrous effect on
9 the people working in the service sector in this
10 province.

11 Your goal in this review is to determine
12 what's fair to Albertans. As you contemplate increased
13 royalty rates, I urge you to consider the hundreds of
14 thousands of Albertans and their families who rely on
15 them who work for or in support of the petroleum
16 industry.

17 Because of this year's slow down in
18 activity, some companies are already laying off staff and
19 others are sure to follow.

20 A change in royalty structure would
21 exacerbate the already precarious situation these people
22 find themselves in.

23 Thank you for your attention and I refer
24 you to our paper we submitted to support our
25 presentation.

1 Thank you.

2

3 QUESTIONS BY BOARD:

4 THE CHAIRPERSON: Thank you, sir. If
5 you'll allow us a few questions.

6 Andre...?

7 MR. ANDRE PLOURDE: Thanks. Thank you
8 for your presentation. I've read the materials, so, I'm
9 going to try and ask some questions about both the
10 material that you submitted and the presentation.

11 So if you go to -- let me start with cost
12 issues, on page 7 of your -- of the material that you
13 submitted. You have a discussion about how costs are
14 high here in Alberta.

15 What's your feeling -- how does this
16 compare to costs in onshore or US, for example? Is there
17 reason to think that costs are higher in Alberta, lower
18 in Alberta --

19 MR. ROGER SOUCY: Well, I'll defer --

20 MR. ANDRE PLOURDE: -- or both --

21 MR. ROGER SOUCY: Yeah, okay. That's a
22 good question, Andre, and I'll defer that to Frank
23 because he's got operations in both -- in both areas and
24 he can speak specifically to that.

25 US costs versus Canadian costs.

1 MR. FRANK TIRPAK: Yeah. I note that
2 definitely the US, the labour costs are a lot less than
3 they are in Canada here. The cost of doing business in
4 the US is a lot less than it is in Canada is what we're
5 finding. Our -- and even though our margins are about
6 the same but a little -- maybe a little bit greater than
7 the US, we simply do much better in the US.

8 Here, I think you've got to keep in mind
9 that the drilling is -- is not happening in the areas
10 where most of our population is. In Canada we have --
11 now we have to go out further into the mountains or
12 further away from the communities where people live, so,
13 there's a -- there's a huge increased cost there of -- of
14 housing the people there in camps and so forth like that,
15 so there's a huge increase of costs.

16 The costs of labour. The biggest problem
17 we have is trying to find people in a new generation that
18 want to live away from home. If they -- they want to be
19 home at night, they want to take their girlfriends to
20 movies, things like that. It's very difficult to find
21 people that want to work away from home. That's --
22 you've got to pay them a little bit more, so, our labour
23 costs are going to be up, there's a lot of competition
24 out there.

25 Anything else you can think of Roger I've

1 missed?

2 MR. ANDRE PLOURDE: Okay. Good. Thanks.

3 On page 10 of your presentation, you have
4 this apples to apples, apples to oranges analogy and you
5 kind of inform us about how making apples-to-oranges
6 comparisons would be inappropriate, but what you don't do
7 is give us ideas of what apples-to-apples comparisons
8 would be.

9 So what would be apples to apples
10 comparisons?

11 MR. ROGER SOUCY: Now, you're relating to
12 royalty?

13 MR. ANDRE PLOURDE: Royalties. One size
14 does not fit all. It's not comparing apples to apples,
15 right? The Norway-Alaska routine. And I'm not going to
16 disagree, I'm -- just tell you right now, okay.

17 But, what would be apples-to-apples
18 comparisons?

19 MR. ROGER SOUCY: Well, I -- the
20 difficulty we have, and I tread into things like the
21 specifics of royalties because it's not really our area
22 of expertise -- you know, we're contractors, that's
23 something that -- and I'm sure you've asked the question
24 to -- to the producing industry in one fashion or another
25 that are much better situated to do that.

1 But, you know, we've -- I think the reason
2 we put that in there is, you know, we've heard the
3 arguments that people have used in comparing the Alberta
4 royalty system versus other jurisdictions. And our point
5 there is is that there's lot of example, if you look into
6 it, to show that you're not necessarily comparing apples
7 to apples.

8 I mean, in Norway, for instance, it's a
9 federal state tax system where here you're dealing with
10 provincial and then federal taxes and so on and so forth,
11 so the layering of taxes is different.

12 So, you know, that's what we meant by it
13 is that picking a number and saying, you know, 25 percent
14 is right or wrong versus somebody who is getting 30
15 percent, there's a lot of other things that are going --

16 MR. ANDRE PLOURDE: Okay.

17 MR. ROGER SOUCY: -- into it to make that
18 up and --

19 MR. ANDRE PLOURDE: Okay. Okay.

20 MR. ROGER SOUCY: -- when you're looking
21 at that you have to -- you have to --

22 MR. ANDRE PLOURDE: So in terms of
23 comparisons, you have advice for us on what not to do,
24 but you don't have any advice for us on what to do?

25 MR. ROGER SOUCY: That's right.

1 MR. ANDRE PLOURDE: Okay.

2 MR. ROGER SOUCY: Particularly in
3 royalties because just don't feel that --

4 MR. ANDRE PLOURDE: All right.

5 MR. ROGER SOUCY: -- that we have the
6 expertise to --

7 MR. ANDRE PLOURDE: So you have the
8 expertise to tell us what not to do, but you don't have
9 the expertise to tell us what to do?

10 MR. ROGER SOUCY: Well, only from the
11 standpoint that if we can -- we can tell you the effect
12 it has on our sector of the industry in the reduced
13 cashflow it does it -- it will have on the producers who
14 reinvest that cashflow.

15 MR. ANDRE PLOURDE: No, I'm -- I guess at
16 the stage I'm --

17 MR. ROGER SOUCY: That's our only --

18 MR. ANDRE PLOURDE: -- only talking about
19 comparisons, I'm not even talking about --

20 MR. ROGER SOUCY: All right.

21 MR. ANDRE PLOURDE: You know, what should
22 we be comparing?

23 MR. ROGER SOUCY: All right.

24 MR. ANDRE PLOURDE: Okay. Last thing is
25 on one (1) of your slides that's one (1), two (2), three

1 (3), four (4), fifth slide, impacts of increasing royalty
2 rates.

3 So it's kind of increase royalty rates, a
4 whole bunch of things happen. So, I'm going to try to
5 turn the question around on you and say, should I
6 conclude from that that the optimal royalty rate is zero?

7 MR. ROGER SOUCY: Well, --

8 MR. ANDRE PLOURDE: 'Cause all of this --

9 MR. ROGER SOUCY: Yes.

10 MR. ANDRE PLOURDE: Any increase --

11 MR. ROGER SOUCY: Sure.

12 MR. ANDRE PLOURDE: -- has negatives
13 effects, as you've pointed out there, so should I
14 conclude from that that the optimal royalty rate's zero?

15 MR. ROGER SOUCY: Well, if -- from --
16 from the standpoint of the amount of activity that would
17 be produced, the answer to that question would be yes.

18 Now, obviously there's more in play here
19 than -- than just a level of activity and --

20 MR. ANDRE PLOURDE: Right.

21 MR. ROGER SOUCY: -- and, you know, the
22 province feels and it -- I mean, there obviously there's
23 some justification for that, that as the owner of the
24 resource it has -- it wants another piece of it as well.

25 MR. ANDRE PLOURDE: Right.

1 MR. ROGER SOUCY: So that's what we're
2 debating and discussing today.

3 MR. ANDRE PLOURDE: Right. And that's
4 not on the slide?

5 MR. ROGER SOUCY: That's correct.

6 MR. ANDRE PLOURDE: Okay, great, thank
7 you.

8 MR. ROGER SOUCY: All right.

9 THE CHAIRPERSON: Judith...?

10 MS. JUDITH DWARKIN: Thank you. Good
11 morning. Back on the slide that you were just speaking
12 to from Andre, would it be fair to say that you're
13 actually missing a piece of the flow diagram in that?

14 What we've seen over the last five (5)
15 months in Alberta is that the -- the sector is adjusting
16 to a price cost squeeze so, in fact, you don't have to
17 start with increased royalty rates at the top and show
18 this cascade of -- of bad effects, but rather a price
19 cost squeeze has -- has caused producers to reign in
20 their drilling activities to some extent and then an
21 offshoot of that is that we're seeing costs coming down
22 in the service sector.

23 So in -- in some ways the cure for high
24 costs is low activity and then the cure for low activity
25 is lower costs. And related to that in your -- in your

1 written presentation you note that it's basically it's
2 bad policy to develop, you know, make long-term changes
3 to royalty policy based on short-term circumstances and
4 that's completely true.

5 However, we're talking about short-term
6 circumstances, cyclical downturn in the service sector as
7 somehow being a reason why we shouldn't be examining the
8 royalty system today. So it doesn't seem to work in
9 reverse.

10 Do you have a comment on that?

11 MR. ROGER SOUCY: Well, yeah, well, I
12 think that the very fact that there are cycles in the
13 industry is something that has to be factored into --
14 into the process --

15 MS. JUDITH DWARKIN: Mm-hm.

16 MR. ROGER SOUCY: -- and, I mean, the
17 pressure to, in fact, have this panel convened in the
18 first place has come from, you know, high prices, high
19 profitability of -- of companies and a -- a sector of our
20 society that wants a bigger piece of that -- of that pie.

21 And so, you know, fair enough let's --
22 let's open the books and have a look at it, but in -- in
23 looking at it one has to keep in mind that prices, as
24 we've seen, aren't always at high levels, certainly on
25 the gas side, we -- we've proved that. And, yes, costs

1 have come down, but those are, to some degree, costs that
2 perhaps are controllable --

3 MS. JUDITH DWARKIN: Mm-hm.

4 MR. ROGER SOUCY: -- for instance, labour
5 costs has not come down and they really can't come down
6 to any -- any significant point because, you know, if we
7 don't pay them they'll just go somewhere else and we've
8 seen since January probably a loss of some ten thousand
9 (10,000) jobs in our sector of the industry because of
10 the downturn in activity.

11 And I don't think any of those people are
12 standing around with their hands in their pockets on
13 street corners looking for work, they're gone, they're
14 working in other areas of the economy. And so we, you
15 know, we can't start reducing our labour costs and expect
16 to keep the people when they can very easily go to other
17 sectors.

18 So, yes, costs have come down, but I think
19 they're -- they're -- it's not a homogeneous -- the
20 service industry isn't homogeneous, there's many factors
21 involved in it. The drilling industry is very -- as far
22 as the drilling rigs industry is very different than the
23 other aspects of the service industry.

24 Manufacturing portion of the service
25 industry is very different than the -- than the field

1 service industry. So, we haul -- they all have their
2 peculiarities in this -- in this grand scheme.

3 MS. JUDITH DWARKIN: Thank you.

4 THE CHAIRPERSON: Evan...?

5 MR. EVAN CHRAPKO: My questions have been
6 covered, thank you.

7 THE CHAIRPERSON: Ken...?

8 MR. KEN MCKENZIE: Yeah, this gets back
9 to Andre's point. I'm just having a little trouble
10 connecting some of the statements you're making. This
11 has to do with this optimal royalty rate somehow being
12 zero (0). I mean, you raised the specter of the National
13 Energy Program in your in your presentation, in your
14 written presentation. And, if you'll allow me a bit of
15 editorializing, I think that's just a trifle
16 disingenuous.

17 I mean, how on earth can you compare the
18 impact of a royalty review on something like the drastic
19 impact of the -- change like the National Eenergy Program
20 when you have absolutely no idea what the outcome of the
21 royalty review will be? And there seems to be this idea
22 that even a small change in the royalty system will have
23 a big impact on economic activity.

24 I'm just afraid that I do not see that
25 connection. There has to be a continuum of impacts.

1 Right, and not this sort of discontinuity which -- which
2 seems to come up in your presentation that, you know, a
3 small change here will have drastic impact somewhere
4 else.

5 I mean, I understand what you're saying.
6 There will be an impact in either direction depending
7 upon what direction that the things change. There's no
8 denying that. But I'm just wondering where this idea of
9 this apocalyptic scenario comes from? So if you could
10 just address that.

11 MR. DAVID YAGER: If I could chip in
12 here. The greatest flaw in the National Energy Program
13 was --- and this, of course, being to some degree
14 addressed by this panel today, is it was written in a
15 policy vacuum in the sense that there were the high cycle
16 items, there was high profits for the producers and a
17 perceived profiteering much like we'll see today.

18 And there was no understanding of how the
19 industry actually worked in the trickle down effect. For
20 those of you who are old enough, one of the questions in
21 the House of Commons was: Are those oil rigs going to
22 the United States or are those gas rigs going to the
23 United States? Because we didn't need the gas rigs. We
24 had an oil shortage, so, those ones didn't matter.

25 On behalf of the service sector I just

1 think that the -- the point is, is that the trickle down
2 effect is a massive multiplier and it's like you guys
3 have all got a financial background. It's like a
4 royalty. You know, 5 percent off the top line is more
5 like 25 or 30 percent on the bottom line.

6 So, I would say apocalyptic is a bit
7 strong in your question, Mr. McKenzie, but I assure you
8 one point off the top has a massive multiplier down the
9 income statement and we're the little guys at the bottom.

10 MR. KEN MCKENZIE: Sure, I understand. I
11 mean, I'll retract the apocalyptic and I'll throw your
12 words back at you, precarious and disastrous, so, you can
13 substitute them. I have no problem with that.

14 MR. DAVID YAGER: Well it will be, it
15 will be. It'll have the --- it'll have a multiplier
16 effect as we've tried to demonstrate, that I just hope
17 that you'll consider, that's all.

18 MR. KEN MCKENZIE: Mm-hm. Absolutely. I
19 truly -- I mean, it's not the issue of the connections.
20 I mean, I'm well aware of the linkages and I very much
21 appreciate the fact in your presentation that you've
22 drawn those out.

23 I'm just having a little trouble with this
24 sort of --- what I view as a discontinuity.

25 MR. ROGER SOUCY: Well --

1 MR. KEN MCKENZIE: And invoking, quite
2 frankly, you know, a policy was invoked twenty five (25)
3 years ago that really has nothing to do with what we're
4 up to today so.

5 MR. ROGER SOUCY: Well except that,
6 again, we're representing a sector of the industry that
7 was absolutely devastated by policies that were done in a
8 vacuum.

9 MR. KEN MCKENZIE: Mm-hm.

10 MR. ROGER SOUCY: You know --- and we're
11 not suggesting that you're going to do that but we don't
12 know where you're going with this either.

13 Now, it's interesting that you say that --
14 - in your comment you mentioned that there'll be small
15 changes.

16 MR. KEN MCKENZIE: No, I didn't.

17 MR. ROGER SOUCY: Well --

18 MR. KEN MCKENZIE: I said I'm just --

19 MR. ROGER SOUCY: Well --

20 MR. KEN MCKENZIE: I'm saying that --

21 MR. ROGER SOUCY: -- I'm not going to ask
22 for the transcript back, but --

23 MR. KEN MCKENZIE: Well --

24 MR. ROGER SOUCY: But -- you know, so we
25 don't know where you're going on this thing, what you're

1 going to recommend, so, to us, the whole scale is there.

2 MR. KEN MCKENZIE: Mm-hm.

3 MR. ROGER SOUCY: And you know, something
4 like the National Energy Program went after big oil and
5 didn't get big oil. They got us cause we can't move like
6 the oil companies can.

7 MR. KEN MCKENZIE: Mm-hm. I appreciate
8 that.

9 MR. ROGER SOUCY: And twenty five (25)
10 years ago the game wasn't good here, they went someplace
11 else and all those mom and pops in Podunk, Saskatchewan,
12 Podunk, Alberta went out of business.

13 MR. KEN MCKENZIE: Sure. I understand
14 that. Thank you.

15 THE CHAIRPERSON: Sam...?

16 MR. SAM SPANGLER: Good morning. A
17 little bit of help because I don't think that I --- that
18 we got a real answer. United States vs Canada. I'm
19 getting an inferiority complex very close concerning it.
20 I don't understand why the Americans beat us in
21 everything.

22 Here you have the same price of gas. The
23 same price of oil. And the guys in the US also like
24 girlfriends take them to the movie anyway, I'm sure, and
25 all that stuff. And there all the rigs are busy like

1 hell. And here we only 50 percent busy. What is it?

2 I think I have an answer by the way, but I
3 want to hear your answer.

4 MR. ROGER SOUCY: Well there's a number
5 of points. I think the dollar is one ---

6 MR. SAM SPANGLET: What do you mean
7 dollar?

8 MR. ROGER SOUCY: Canadian dollar, the
9 value of the dollar has gone up dramatically in the last
10 couple, three (3) years.

11 MR. SAM SPANGLET: Yeah.

12 MR. ROGER SOUCY: We have an economy here
13 that is hyper inflated. And ---

14 MR. SAM SPANGLET: And who created it?

15 MR. ROGER SOUCY: Well, I mean, it's the
16 nature of the industry here plus all of the other ---

17 MR. SAM SPANGLET: No.

18 MR. ROGER SOUCY: -- I think spin-off
19 industries --

20 MR. SAM SPANGLET: No. It's leadership
21 and productivity; that's what it boils down to. And to
22 connect all of this to royalties is -- I'll tell you --
23 look, I'm a former executive, I'm coming from there.

24 And I suggest to you that I've majored --
25 my message to the industry and to you guys is start

1 looking at how to take costs out of the system and how to
2 increase productivity starting from the top, not from the
3 little guy on the bottom there and do it.

4 Because across the border, their rigs are
5 busy, services are busy, same oil price, same gas price.
6 And it doesn't have anything to do with royalties.

7 MR. DAVID YAGER: I think you'll find the
8 upfront access costs are higher in Canada. Most of the
9 Crown mineral rights are freehold mineral rights. In
10 very many cases you don't have to pay an upfront land
11 bonus.

12 Secondly, very often the surface rights'
13 holders their interests are congruent with those of the
14 mineral rights holders. Often they're the same person.
15 So what we have in Canada is we have the Crown owning the
16 subsurface mineral rights and we have to make a separate
17 agreement with the surface rights holder.

18 So there's a cost often --- an access
19 cost, a service rights' cost. Frank talked about the
20 physical access costs. There's also the seasonality
21 cost. The fact that there's three (3) months a year when
22 we can't do anything so you can't keep your programs
23 going.

24 I didn't know to what degree - because
25 there was only two (2) seats up here - I should get

1 involved but Andre asked a question, you know, what's
2 Canada like? Well we're not like anything in the world,
3 really, in terms of the meteorological challenges, the
4 geological challenges.

5 In talking to producers we, at PSAC, have
6 been active in trying to get the industry to cooperate on
7 a cost study to tear the thing apart.

8 Royalties outside, what is the actual cost
9 of well bore construction due to the total cost.
10 Unfortunately, the Canadian Association of Petroleum
11 Producers are so terrified by this panel and several
12 other events such as the Clean Air Act, the change in
13 dollar, that we can't seem to get their attention.

14 MR. SAM SPANGLET: The share prices keep
15 going down by the way.

16 MR. DAVID YAGER: No, I think that's
17 unfair. I think to -- you know, it's interesting to
18 watch you guys kick EnCana. I wish I owned some, but --
19 but some companies are doing very well in terms of some
20 of the larger producers but many many are not doing well
21 at all right now. There's a lot of companies in the
22 service sector and smaller A and P companies that are
23 doing very very poorly.

24 But to continue, to look at the two (2)
25 regimes, one of our larger clients is Devon Canada.

1 Their cost in the States is about --- in Canada is about
2 nine (9) bucks per thousand. And the cost in the States
3 is about seven (7). And we have, as an association, have
4 been all winter have been trying to get the industry to
5 fund a study.

6 MR. SAM SPANGLET: Mm-hm.

7 MR. DAVID YAGER: So what component of
8 this is well bore construction, what point is the -- the
9 perennial conflict between the Crown and the subsurface
10 mineral rights holder and the surface rights holder and
11 I'm told by some of the producers at CAPP, who are
12 sympathetic to our case, that the other -- the soft costs
13 between the purchase of the mineral rights and the actual
14 well bore construction costs involved with surface access
15 and so on.

16 We would love to be able to be here today
17 as an association and plunk these numbers in front of you
18 and actually just strip out the F&D costs and be able to
19 lay down, you know, well bore construction costs and
20 labour cost on a basis to basis case.

21 THE CHAIRPERSON: Maybe I could finish our
22 exchange with gas as I've --- I understand it 2004, '05,
23 '06 and '07 is averaging about six (6) bucks.

24 Q4 of '05 we saw it go up to eleven (11)
25 and then Q3 of '06 we saw it drop down to three fifty

1 (3.50), more than balance out each other. So, the
2 balance has been about at six fifty (6.50).

3 Yesterday we had a drilling rig company
4 tell us that they doubled their rig count for their fleet
5 since 2002 to 2007. We've heard that there's been record
6 drilling opportunities over the last three (3) years.
7 We've heard from EnCana that talks about six (6) quarters
8 plus of outstanding performance and then we hear, because
9 somebody parked the rigs that that has a huge influence
10 on the royalty examination, so.

11 MR. ROGER SOUCY: Well, you know, we're
12 just -- the point being is that there's -- there's a
13 cycle involved and if you're -- you know, in your review
14 of the royalty system you have to look at it from the
15 longer term perspective that it was originally put in
16 place, and not just because -- there's pressure now
17 because in 2005 it was a record year, right.

18 So that's the only thing we're -- we --
19 that -- that the question -- or the only point, I guess,
20 when you boil it all down, is when you're reviewing that,
21 look at the longer cyclical nature of the industry and --
22 and the effects that that has.

23 You know, I mean from the service industry
24 we recognize, you know -- we're, in a lot of ways, our
25 own worst enemies. When you double the rig count and, I

1 mean, I -- I can get on that soapbox, too, but time won't
2 per -- won't permit it here.

3 You know, it's the nature of the
4 capitalistic system that we're in. When the
5 opportunities are there, people -- and when money's
6 available, and certainly money has been available in this
7 province, we'll -- we'll flood in to -- to fill that
8 market and then as soon as there's a pullback, yeah --
9 you know, we've expanded too far and so you have that
10 curtailment and you start the cycle all over again.

11 You know, it's no different than commodity
12 prices and the cycles that they go through. We live by
13 those.

14 MR. FRANK DUBAK: Can I -- can I add
15 something that, also, probably a lot of the companies
16 you're talking about have a big interest in the US that
17 probably balances out their balance sheet. I think if
18 you forget about that -- we -- we have sent a lot of
19 equipment south in the -- in the last year because we got
20 over capacity here, so it's going south. And they're
21 doing very well down south.

22 THE CHAIRPERSON: On a positive note, we
23 enjoy being a province with energy development and the
24 service people that make them successful, so thank you
25 for your presentation this morning.

1 you've heard many times about the challenges the industry
2 is facing here in Alberta. You've heard about rising
3 costs due to the -- commodity prices, labour shortages,
4 greenhouse gas regulations. You've heard about squeezed
5 margins due to the strong Canadian dollar. You've heard
6 about the impact of uncertainties in the regulatory and
7 fiscal regime. And I share these concerns and I don't
8 want to diminish them.

9 And we've submitted a document, which I'll
10 be happy to answer questions that deals with many of
11 them. But what I want to do is take my time today, my
12 brief time, and just talk a bit about Alberta's global
13 competitiveness. And I'll bring this from the
14 perspective of someone who's relatively new here. I've
15 been here about six (6) months, so perhaps you will take
16 that worth a grain of salt.

17 But what I have done in my twenty-seven
18 (27) years in the career -- were in -- career -- has
19 worked all over the globe. I've also worked for a global
20 company. ConocoPhillips is one (1) of the largest
21 integrated oil and gas companies in the world. We
22 operate in forty (40) countries and this year we'll
23 invest in new investments over \$13 billion. So you might
24 say we live with competitive -- global competitiveness
25 every day. We make these decisions on a daily basis

1 where to invest.

2 Personally, during my career, I've had the
3 opportunity to work in the Lower 48, Alaska -- you can
4 tell I lived in Alaska because I called those other
5 states the "Lower 48" -- now Canada, Russia. I heard
6 some chuckles. I just came from Russia and I'll make a
7 few comments about that and I've also in a host of
8 international projects.

9 And I -- I guess I have -- and you can
10 take it for a grain of salt but I think I've had a bit of
11 experience, first-hand experience, on what it means to
12 try to compete for capital investments against other
13 great projects around the globe and there are a lot of
14 them out there.

15 And I've learned a number of things. I
16 guess the -- one (1) of the main things I've learned is
17 that the oil and gas industry truly is a global industry
18 and investment capital will move where the most
19 profitable return can be made; that's -- that's just a
20 fact of life.

21 And it's actually pretty highly mobile;
22 that's what's amazed me, how quickly money -- what --
23 what is today's hot area can turn into tomorrow's cold
24 area. You don't want to go there. And I guess if I --
25 you only need to take one (1) thing away from my comments

1 today, I guess it would be something to the effect of, I
2 would encourage you to do all you can to help protect
3 Alberta's global competitiveness in the face of these
4 challenges I enumerated before.

5 And I -- I don't envy your task because
6 evaluating competitiveness is not easy. I mean, look at
7 the things that go into to. It's not just royalty; it's
8 the overall government fiscal take. It's the overall
9 government stability. It's political risk. It's the
10 resource size you're dealing with, the -- the quality of
11 the resource, the certainty of the resource, how far are
12 you from the market? Are you at the end of the pipeline?
13 Are you right next to the consumer? You know, you've got
14 to factor all these things and, oh, I didn't mention
15 development and operating costs, just a small task we
16 have -- a challenge.

17 All those things factor into the
18 determination and it's -- it's a challenge to come up
19 with the right balance amongst these factors that you'll
20 attract investment at the same time you're getting your
21 fair share. And fair I think I've learned is often like
22 beauty; it's very much in the eye of the beholder. We
23 all have a different opinion of what fair is but one (1)
24 of the ways I tend to measure it is just as the saying
25 goes, follow the money. Where's the investment going?

1 What are the trends? What's happening? How does -- how
2 does Alberta look in that regime?

3 And I guess prior to coming to Alberta, as
4 I mentioned, I worked in Russia and I was responsible for
5 ConocoPhillips' assets in Russia and Caspian.

6 And I've got to tell you, some people
7 chuckled about Moscow. I lived in Moscow and I loved
8 living in Moscow. It was a great place to live, an
9 interesting experience but I also have to tell you I was
10 very glad to come to Calgary and come to our Canadian
11 operations because Russia is, indeed, a country that's
12 blessed with incredible resources. And I will say
13 ConocoPhillips has significant investments there but of
14 late the political and fiscal environment in Russia, I'll
15 just say it's very challenging. We'll leave it at that.
16 And it's -- it was good to come to Alberta.

17 And I came to Alberta with a number of
18 expectations. I guess my biggest expectation is I'm
19 coming to a province, a basin that has some substantial
20 low-risk geological resources. I mean just -- they're
21 there. You know the gas is in place. You know the oil
22 is in place but the challenge is how do you get them out
23 of the ground and make money doing it?

24 And I think one (1) thing is constant
25 whether it be oil, gas, or bitumen Alberta tends to be

1 the high cost of supply. When you stack up the road and
2 look how much it costs to get the oil and gas or bitumen
3 out of the ground and delivered to the marketplace, we
4 definitely have a competitive disadvantage.

5 We are one (1) of the highest cost basins
6 in all of those categories in the global race for
7 capital. Now, that's the bad news. I would say the good
8 news, coming in with my bias, is these cost challenges
9 are mitigated by the stability of Alberta's and Canada's
10 fiscal and regulatory regimes and it results in why we're
11 -- we've seen, until very recently, record drilling rates
12 and record rig rate utilizations. It's been a very
13 active place.

14 Unfortunately -- and I -- and I don't know
15 if it's just my arrival or not, the last six (6) months
16 have seemed to see a change in environment. I don't know
17 if it's my arrival or the changing of governments or the
18 subsequent policy adjustments that have come with those
19 governments but uncertainty has definitely increased;
20 there's no doubt about that.

21 We're -- we're seeing cumulative impacts,
22 if you will, or cumulative cost impact or uncertainty
23 impact associated with things with the ACCA going away
24 for the oil sands, the lack of clarity or cost around
25 what it's going to cost us in greenhouse gas and fighting

1 climate change and also seeing changes in some of the
2 conventional royalty levels from 2006 as those
3 adjustments take place.

4 And you asked some questions about -- the
5 previous speakers, about precipitous change and tipping
6 points and that and step change and I'm not going to come
7 up here and tell you if you make a change in royalty
8 suddenly the world is going to end because you're
9 economists, you're wise people, you know better than
10 that. This is all sort of cumulative impact. And I
11 barely believe that you can kill a project by making a
12 little change here or there.

13 But I have learned if you -- to make too
14 many of these change and hit the cumulative impact, you
15 definitely may not kill the patient, but you -- you can
16 put him into a long-term coma and that's generally not a
17 good thing for the industry or the province because the
18 net effect of delaying projects and -- or indefinite
19 deferrals is basically revenues are going to go down,
20 both for the industry as well as for Alberta.

21 It is interesting that all this change is
22 going on at a time when Western Canada gas has proven to
23 be one (1) of the most expensive basins in the world to
24 find developed hydrocarbons. You've seen some prior
25 data, I put some in the report we've submitted, but if

1 you look over the last four (4) to five (5) years, we've
2 been seeing double digit cost increases in Canada and
3 that has been eroding our competitiveness.

4 We've also seen that our -- compared to
5 our major competitor for the North American gas market,
6 those guys in the lower 48, that our cost had that
7 increasing differential and part of that is foreign
8 exchange 'cause the Canadian dollar has moved 50 percent.

9 And 80 to 90 percent of my costs that I
10 look for in terms of developing and finding oil and gas
11 are in Canadian dollars and so when the Canadian dollar
12 moves, compared to those guys in the US, we just got more
13 expensive. And it really came home to me in April when
14 we -- we jumped about 10 percent in one (1) month
15 compared to -- didn't do anything different, we just --
16 our cost just went up by about 10 percent in -- in one
17 (1) month.

18 Now, bear in mind, our revenues come in in
19 US dollars, you guys all know that, so this is --
20 translates into a profit squeeze. Right now we're about
21 40 percent higher than the lower 48 and I said, that's
22 partially due to FX and part of it's due to the
23 seasonality of our work.

24 A lot of my compatriots in the -- in the
25 lower 48, and we are a big driller down there, have the

1 luxury of drilling year round where we shut down. I
2 swing from forty (40) to fifty (50) rigs running in the
3 winter months down to almost none running during the
4 spring break and then we'll ramp back up as we go into
5 the fall and into the winter season again.

6 And that's just driven by the location of
7 where we drill, that's a fact of life. About 70 percent
8 of our targets are -- only can be accessed in the winter
9 months. Anyhow, you put this all together and returns of
10 late have not been as profitable in this basin and I
11 think the industry has responded.

12 The numbers I've seen indicate that
13 drilling for western Canada dropped about \$5 billion this
14 past year. I see you're nodding your heads, you've seen
15 the numbers before. We cut our drilling in half (1/2)
16 when that -- I would've liked to see it be higher, but I
17 got into the global race for com -- for competition for
18 capital.

19 Actually the first thing I did when I
20 showed up on the job was going through our annual budget
21 cycle and maybe I'll do a better job this year, but the
22 rates of return weren't competing with what we'd see in
23 the lower 48, so we cut back our capital in hopes that
24 the market would adjust up here and the place would
25 become more competitive.

1 As I said, you know, previously your job's
2 not an easy one, evaluating competitiveness is not easy,
3 but I think one (1) metric you can use is capital
4 investment, where's the money going, is it increasing or
5 is it decreasing and, frankly, I think -- although it's a
6 lacking indicator, it in -- the indicator indicates that
7 the cost are -- are -- the capital is -- is heading out.

8 And if you look at the same time, and I'm
9 sure you've seen these numbers from CAPP, we've seen
10 investment while it's dropping in Alberta, it is
11 increasing in the lower 48 and elsewhere around the
12 world. So, I would encourage you as you go forward to --
13 to take a look and -- and not do anything that would
14 further, if you will, debilitate -- I think debilitate's
15 too strong of a word, decrease Alberta's competitiveness.

16 I know my time's just about up, let me
17 make one (1) last comment before I do and that is in
18 support of the current oil sands royalty. I could go
19 into long detail, we have it in our writeup, but on my
20 short answer would be on the oil sands royalty, it is
21 working.

22 It encourages investment in a very, very
23 high cost resource and it does provide ultimately a -- a
24 very hefty return in terms of royalty to the -- to the
25 province. And if you want to look at one (1) note of

1 that, take a look at Syncrude, one (1) of the oldest
2 projects around.

3 It was paying 1 percent and it's recently
4 jumped up to the 25 percent rate and we saw the royalties
5 go from 55 million in 2005 to over 654 million in 2006
6 and so it is, indeed, working, it is encouraging
7 development, but that was after a decade of investment.

8 THE CHAIRPERSON: Have you got one (1)
9 paragraph to close, sir?

10 MR. KEVIN MYERS: One (1) -- you've --
11 you've cut to the chase and that simply is, my concluding
12 statement is, Alberta's had a very long and often rocky
13 but bright history in the development of oil and gas and
14 oil sands.

15 And I think -- and I'm confident with
16 under your guidance that we will continue to have a very
17 bright future and I encourage you to weigh in all of the
18 factors that impact the economics and the global
19 competitiveness of Alberta as you ponder what should be
20 done on royalty and with that, thank you.

21

22 QUESTIONS BY BOARD:

23 THE CHAIRPERSON: Thank you very much and
24 again, if we could have a few questions? Judith...?

25 MS. JUDITH DWARKIN: Good morning. Your

1 advice is to follow the money and your observation is the
2 capital's heading out. Well, clearly these companies
3 aren't abandoning their assets, someone else is coming in
4 and buying them, so I'm not sure your advice is an
5 unambiguous as you might think.

6 MR. KEVIN MYERS: Well, I would sugges --

7 MS. JUDITH DWARKIN: And I'm seeing
8 notable acquisitions in the oil sands sectors especially
9 even since the royalty review was announced.

10 MR. KEVIN MYERS: Yeah, what I -- what I
11 would say, you know, acquisition in many ways is a
12 transfer of an asset. When I say, follow the money, look
13 at new capital investment, are people making new capital
14 investments?

15 The oil sands has remained strong, but I
16 will tell you and I know Gerry showed you some numbers
17 before, we're a partnership with them in Foster Creek and
18 Christina Lake. When we look at these new investments,
19 these projects are very challenged to meet our hurdle and
20 compete for global capital.

21 I mean, they're -- they're struggling to
22 get into double digit types of return.

23 MS. JUDITH DWARKIN: Thank you. I have a
24 question on your written presentation and thank you very
25 much for that, it was very detailed. You have a chart

1 that shows -- compares the costs -- I guess its full
2 cycle supply costs for Alberta gas versus other -- some
3 regions in the US --

4 MR. KEVIN MYERS: Mm-hm.

5 MS. JUDITH DWARKIN: -- and you note that
6 the -- the Canadian cost is the highest, it's around
7 seven dollars (\$7) US per Mcf. We've received other
8 information and most recently a Cambridge Energy study
9 uses 2005 data as well, which is the same date as in your
10 chart, I think it's on page 7.

11 And they looked at seventy-six (76) North
12 American basins and all in long run supply costs again
13 and similar metric to the one that you've shown, and that
14 study shows us that all areas of Alberta that includes
15 unconventional gas have less than average costs.

16 So I'm -- I'm just -- I'm in a bit of
17 quandary of how to digest all this various information
18 we're getting from various corners of the globe with
19 respect to the cost structure of the Alberta resource?

20 MR. KEVIN MYERS: Well, you know, as to
21 the specifics, I assume you're referring to the chart
22 prepared by Zip Energy?

23 MS. JUDITH DWARKIN: Yes, yes.

24 MR. KEVIN MYERS: I would, you know,
25 refer you to -- to Paul to get the details, but what I

1 can offer is the following observation. What Paul was
2 showing there in terms of relative cost of service is
3 very consistent with what we see internally when we stack
4 up our opportunities in -- within --

5 MS. JUDITH DWARKIN: Mm-hm.

6 MR. KEVIN MYERS: -- North America and --
7 inside ConocoPhillips and we st -- we right now are the
8 third largest producer in western Canada at gas and oil,
9 that comes as a surprise some people, but we've done it
10 through a number of mergers and acquisitions in Canada
11 and I think we're probably like second or third largest
12 in the lower 48.

13 So we have a pretty big database we work
14 from and I find that as much as I love my brother to the
15 south, this time of year as we go into the budget cycle,
16 I hate them and they tend to be, as a whole, coming in
17 with several percent better returns than I'm being able
18 to generate in -- in the basins we're dealing with up
19 here.

20 MS. JUDITH DWARKIN: Well, maybe you
21 should get that Cambridge Study and use that for ammo.

22 MR. KEVIN MYERS: Unfortunately what we
23 do is, we're using our actual Rothwell prognosis --

24 MS. JUDITH DWARKIN: Yeah.

25 MR. KEVIN MYERS: -- and data and cost

1 and it's, you know, as it -- it's hard -- sort of hard to
2 argue with those.

3 MS. JUDITH DWARKIN: Thank you.

4 THE CHAIRPERSON: Ken...?

5 MR. KEN MCKENZIE: Yeah, thanks a lot for
6 the -- for the presentation. Let's talk -- let's talk
7 about fairness. I mean, you're -- you -- you nailed it,
8 you know, when you said that it's -- it's -- fairness is
9 a difficult concept. Let me just quote something to you
10 from your study and this is actually a CAPP quote:

11 "When federal and provincial corporate
12 income taxes are added to the
13 provincial royalty, the total
14 government share of marginal net
15 revenues from an oil sands project is
16 49 percent and the industry share is 51
17 percent."

18 I mean, we've seen this, I know where that
19 number comes from, I'm sure you're -- you understand it--

20 MR. KEVIN MYERS: Mm-hm.

21 MR. KEN MCKENZIE: -- as well. So that
22 seems to be presenting the view that, you know,
23 fifty/fifty (50/50) seems about right and so let's sort
24 of continue down that road. A problem with that forty-
25 nine/fifty-one (49/51) number, of course, is it's just

1 focussing on a year-by-year basis on the net -- on -- on
2 the share of net revenues, revenues net of -- of cost,
3 okay.

4 And I'm sure you will agree and, in fact,
5 you indicate in the study, that we should really be
6 looking at government take on a full cycle, full project
7 basis, over the life cycle of the entire project?

8 MR. KEVIN MYERS: Mm-hm.

9 MR. KEN MCKENZIE: Right, I mean. And
10 indeed, we should be discounting our revenues and costs
11 to take into account of the fact and particular in oil
12 sands that the expenditures tend to be very upfront and
13 the revenues tend to come at the end.

14 So are we in agreement on that?

15 MR. KEVIN MYERS: I would say so far,
16 yes. But somehow I feel like I'm -- there's a path I'm
17 heading to and there's going to be a cliff --

18 MR. KEN MCKENZIE: No, no, no. No, no.

19 MR. KEVIN MYERS: -- I'm about to run off
20 and --

21 MR. KEN MCKENZIE: I'm not a lawyer, I'm
22 an economist, okay, so.

23 THE CHAIRPERSON: Have you ever been to a
24 congressional hearing?

25 MR. KEVIN MYERS: Yeah, actually I have

1 on one (1) or two (2) occasions in my past life in
2 Alaska, so, I get his feeling, but so far I'm with you,
3 let's put it this way.

4 MR. KEN MCKENZIE: Okay. So -- so let's
5 just continue down this road then and see where it takes
6 us. Let me just throw some hypothetical numbers out at
7 you and -- and these are hypothetical for discussion
8 purposes, okay.

9 So let's say that the government or the --
10 the crown/company's split over the life cycle was
11 forty/sixty (40/60), say, you know, and, again, these are
12 -- I'm just pulling these numbers out, so it's not
13 fifty/fifty (50/50), it's forty/sixty (40/60).

14 Is that now unfair, right? And indeed
15 let's say that there's several competing jurisdictions in
16 the world where the government take on a life cycle
17 present valued adjusted basis is sixty (60), right and --
18 and here it's forty (40). I mean, are things out of
19 whack there?

20 MR. KEVIN MYERS: Well, it -- it's hard
21 to answer that question in absolute --

22 MR. KEN MCKENZIE: Right.

23 MR. KEVIN MYERS: -- because to me the
24 judge of it is, when you -- if you've made that change --

25 MR. KEN MCKENZIE: Right.

1 MR. KEVIN MYERS: -- how do you make it,
2 when do you take -- make the -- when do you take the --
3 the fiscal take for the government, the timing --

4 MR. KEN MCKENZIE: Right.

5 MR. KEVIN MYERS: -- 'cause that has a
6 big impact on rates of return. I mean, what is it going
7 to do in my -- in terms of my economics? I'm out there
8 trying to, you know, attract capital for our oil sands
9 projects --

10 MR. KEN MCKENZIE: Mm-hm.

11 MR. KEVIN MYERS: -- since you used oil
12 sands, will this still make them competitive.

13 MR. KEN MCKENZIE: Mm-hm.

14 MR. KEVIN MYERS: My gut answer is it's
15 going to be -- the answer going to -- my gut answer's no
16 and the reason I say that is, I look at new projects that
17 are coming up for sanction and we operate Surmont, we are
18 a 50 percent owner in Foster Creek, we also are 50
19 percent owner in Christina Lake, --

20 MR. KEN MCKENZIE: Mm-hm.

21 MR. KEVIN MYERS: -- which EnCana
22 operates. So we're seeing a whole host of oil sands
23 projects coming forward for sanction literally one thirty
24 (130) or forty thousand barrel a day projects almost a
25 year for the next five (5) to ten (10) years is sitting

1 up in the cue.

2 And you look at that and I say, with the
3 current royalty regime, we're struggling to sanction
4 those.

5 MR. KEN MCKENZIE: Mm-hm.

6 MR. KEVIN MYERS: We're struggling to
7 find them, compete for capital in our portfolio. Now, we
8 fight that on a number of regimes, it's not just royalty,
9 I'm not get out --

10 MR. KEN MCKENZIE: Mm-hm.

11 MR. KEVIN MYERS: -- there and say
12 royalty is it. You -- if you play royalty, the royalty
13 comes to an end --

14 MR. KEN MCKENZIE: Yeah.

15 MR. KEVIN MYERS: -- oil prices comes
16 into this, --

17 MR. KEN MCKENZIE: Mm-hm.

18 MR. KEVIN MYERS: -- cost comes into
19 this, the list goes on and on --

20 MR. KEN MCKENZIE: Mm-hm.

21 MR. KEVIN MYERS: -- and we try, we -- we
22 fight them on many fronts, but I would say these are not
23 projects that are tremendously robust and I don't know
24 what would happen.

25 I'm not going to say that would -- a

1 change in royalty is going to kill the project, but I'm
2 also at the same time balancing the regulatory
3 challenges, the greenhouse gas challenges, which have a
4 whole range of potential cost impacts that, frankly not
5 all of the projects around the globe have these same type
6 of regulations they're facing, so that's why you have to
7 view them more as a cost than as a -- as a price as of
8 doing business --

9 MR. KEN MCKENZIE: But many of them do.

10 MR. KEVIN MYERS: Many do.

11 MR. KEN MCKENZIE: I mean, greenhouse gas
12 issues are not Alberta or Canadian centric, obviously,
13 and in fact, we're probably lagging much of the rest of
14 the world in this regard.

15 MR. KEVIN MYERS: I would say when you
16 come to the oil and gas development, no, you're leading.

17 MR. KEN MCKENZIE: Okay. All right.

18 MR. KEVIN MYERS: You're leading on oil
19 and gas development.

20 MR. KEN MCKENZIE: Okay.

21 MR. KEVIN MYERS: Now, if you're talking
22 about consumption, I'm not going to sit here and debate
23 the merits of Europe versus, you know, Can -- Europe is
24 probably ahead of us, --

25 MR. KEN MCKENZIE: Yeah, I would agree

1 with that.

2 MR. KEVIN MYERS: -- but you talk about
3 production --

4 MR. KEN MCKENZIE: Okay.

5 MR. KEVIN MYERS: -- we're -- I think
6 we're leading on the production side.

7 MR. KEN MCKENZIE: Okay. So -- so you're
8 basically saying is that even though this sort of
9 government take concept that I'm talking about here is a
10 present value concept, it does take into account the, you
11 know, the time profile of -- of costs and revenues.

12 That -- that you're just really reluctant
13 to come in and say that fifty/fifty's (50/50's) okay or -
14 - or forty/sixty's (40/60's) okay or whatever?

15 MR. KEVIN MYERS: To me, the right answer
16 is the one that will attract global com -- global capital
17 to your projects. And my observation I'm providing you
18 right now is that, I -- and I say, again, it's a lagging
19 indicator, you hate to use lagging indicators, but follow
20 the money.

21 And what we don't see is a lot of people
22 announcing acceleration of projects, we're seeing
23 deferrals and tha -- and things are moving slower, which
24 migh -- many may argue is a good thing to relieve some of
25 the cost pressures, I'm not -- I'm not going to debate

1 that, but I think the indicators are that the oil sands
2 right now under the current regime are barely competitive
3 for capital.

4 But they are attracting it. To say they
5 aren't would be BS, you're BS metre should all go on.

6 MR. KEN MCKENZIE: Mm-hm.

7 MR. KEVIN MYERS: They are attracting it,
8 but I'm -- what I'm saying, is we're barely making that -
9 - making that hurdle right now.

10 And so I'm trying to discourage anything
11 that's going to make my life more difficult in terms of
12 attracting capital, whether it be royalty increase, cost,
13 oil prices, yada, yada, yada, the list goes on.

14 MR. KEN MCKENZIE: Okay.

15 MR. KEVIN MYERS: This is one (1) just
16 part of the stew, if you will.

17 MR. KEN MCKENZIE: Okay, thanks a lot.

18 THE CHAIRPERSON: Evan...?

19 MR. EVAN CHRAPKO: Just to be clear,
20 billions of dollars are going into non-robust projects,
21 do your shareholders know that?

22 MR. KEVIN MYERS: As I said, they're
23 barely making the hurdle. I'm not saying we're not
24 making our hurdle, but they're not -- it's not like
25 something that they're going -- they're well above our

1 hurdle or we're --

2 MR. EVAN CHRAPKO: What's your hurdle?

3 MR. KEVIN MYERS: You know, we don't
4 necessarily per se put numbers out there, but let me --
5 that's sounds like I'm being evasive, but the bottom line
6 is, you look out there, most people talk about making
7 returns on capital employed in the 15 percent range,
8 that's sort of like they -- the number you'll hear or the
9 industry throw out there.

10 And that's a little bit different than
11 investor rate of return, you guys are a bunch of
12 economists, so I'm not going to -- but it gives you the
13 ball park --

14 MR. SAM SPANGLER: Hey, hey, hey, I'm not
15 an economist --

16 MR. KEVIN MYERS: Well, some -- some of
17 you are economists. You can -- the old guys can talk to
18 the economists and that, but I mean, ballpark when you're
19 talking about IRR you're in the same neighbourhood, is
20 what you're -- what you prefer to see, that's the type of
21 the thing that the industry, as a whole, tends to try to
22 attract to consider it itself competitive.

23 MR. EVAN CHRAPKO: So you're -- you -- do
24 you use others tools, IRR, net present value?

25 MR. KEVIN MYERS: When you evaluated

1 projects?

2 MR. EVAN CHRAPKO: Yeah, yourselves
3 specifically?

4 MR. KEVIN MYERS: Yeah, I mean, we use a
5 number of metrics --

6 MR. EVAN CHRAPKO: Oh.

7 MR. KEVIN MYERS: -- when we evaluate a
8 project. There's a whole host of them and can I tell you
9 there's one (1) definitive metric we use above all else?

10 MR. EVAN CHRAPKO: Yeah.

11 MR. KEVIN MYERS: Probably IRR is the one
12 that gets the highest weighting, but it's not the sole
13 one. I don't, you know, -- Sam can tell you, I mean, he
14 --- he's sat -- he knows -- a lot of things go into the
15 overall equation.

16 MR. EVAN CHRAPKO: That --

17 MR. KEVIN MYERS: But it's not just IRR,
18 it really has to be -- you have to consider it in terms
19 of your risk adjusted IRR, you know, you've got to factor
20 that into the equation.

21 MR. EVAN CHRAPKO: We appreciate all the
22 sympathy you expressed when you started your presentation
23 and the fact that you acknowledged we'd heard it all, I
24 think, we're feeling like that and also for focussing
25 your presentation on competitiveness too, that was

1 useful.

2 But then you -- you said accumulative
3 change won't ne -- won't kill the patient necessarily,
4 but can put them into a coma.

5 Can you go a little bit further because
6 one (1) of the things we haven't heard much of is how
7 much energy prices affect the patient and things like
8 after the -- the National Energy Program as mentioned
9 earlier?

10 If you compared the activity in the US and
11 Canada after the NEP was introduced, actually had
12 activity in the US galore, it was coinciding with the --
13 the dog which is energy prices as opposed to everyone's
14 attempt to make it sound like its tail, the fiscal regime
15 wags this dog.

16 MR. KEVIN MYERS: You know, you're
17 absolutely right, I mean, it -- it's royalty in and of
18 its -- you're not -- I'm not going to come over and tell
19 you royalty --

20 MR. EVAN CHRAPKO: Yeah.

21 MR. KEVIN MYERS: -- in and of itself is
22 going to be the sole determinate of what happens here.
23 It is accumulation of a lot of other factors including
24 revenues and cost and, yes, clearly our revenues have
25 gone up dramatically.

1 I should be sitting here with a large
2 smile on my face saying this is a great time, we're doing
3 wonders, but unfortunately if you look through the paper
4 there's numerous examples we've given and CAPP is given
5 out on the industry, it's -- it's our costs are outpacing
6 revenues unfortunately.

7 MR. EVAN CHRAPKO: And it -- is your
8 capital flight argument more strongly correlated to
9 large, major world operators and integrated companies?

10 MR. KEVIN MYERS: I think it's -- my
11 comment -- my comment is really driven on what is -- what
12 is available around the globe in terms of competitive
13 projects for companies to invest in and how do they fair
14 -- there's certain things that are in common here.

15 I mean, we're all facing higher commodity
16 prices, steel is up, copper's up, tubulures are up,
17 that's a commonality around the world, but then there are
18 things that are differential to Alberta and I would say
19 two (2) of the biggest things that are -- are
20 differential to Alberta and one (1) of them is mitigating
21 a bit, but the one (1) big differential has been the FX
22 effect.

23 I know people can be -- foreign exchange,
24 I'm sorry. Foreign exchange effect, you can wave it off,
25 but a -- 89 percent of the costs are in Canadian dollars

1 and the Canadian dollar's depreciated 50 percent in the
2 last four (4) or five (5) years. And that's one effect
3 here that has a big significant effect to us that's
4 differential.

5 I think the other thing is, we -- until
6 very recently, we've been in a pretty heated market here
7 in terms of overall labour and services. Differential to
8 what I think you see around the world. The whole world's
9 hot, but Alberta's been really hot until we -- we've
10 started to see some signs that that's mitigating a bit
11 especially on the drilling services area which some of
12 the previous speakers were talking about rig rate
13 utilizations, they are down.

14 They are down and we're starting to see
15 some movement on rig services costs. We haven't,
16 unfortunately, seen movement in some of the other areas,
17 they still remain pretty hot.

18 MR. EVAN CHRAPKO: Thank you.

19 THE CHAIRPERSON: Sam...?

20 MR. SAM SPANGLET: Welcome to Calgary.

21 MR. KEVIN MYERS: Oh, thank you.

22 MR. SAM SPANGLET: And I don't have any
23 questions, so I'll -- I'll) keep mine clear.

24 THE CHAIRPERSON: Andre...?

25 MR. ANDRE PLOURDE: Thanks. We've heard

1 a lot about being -- about the effects of the Canadian
2 dollar, but I think it's also important to reali -- I
3 think to take into consideration the fact that a lot of
4 the financing is from outside Canada and a strong
5 Canadian dollar makes financing easier to get and cheaper
6 to get.

7 We don't have -- we haven't heard that
8 story, but I'm sure it's part of the story as well. A
9 few questions. Thank you for your presentation and for
10 the written material. If I can take you to page 10, if
11 you have your written material here?

12 MR. KEVIN MYERS: Yes, I do.

13 MR. ANDRE PLOURDE: Thanks. And so I --
14 you have a picture there from -- I guess it's from Ziff
15 Energy --

16 MR. KEVIN MYERS: That's from Paul
17 Ziffigan (phonetic), yes.

18 MR. ANDRE PLOURDE: -- that essentially
19 says, if I read this correctly, that throughout 199 --
20 the 2006 the price of natural gas was significantly below
21 the cost of operating natural gas.

22 MR. KEVIN MYERS: 2006 was a good year
23 for the industry.

24 MR. ANDRE PLOURDE: And how do I conclude
25 that from this?

1 MR. KEVIN MYERS: Well, if you look at
2 this, what Paul has stacked up here, if you will, the
3 cost of service, plus what is believed to be an
4 acceptable rate of return. That's the bars being stacked
5 up there and if I remember correctly, what Paul was
6 showing each year's drilling program, so this isn't the
7 performance of the company as a whole, this is what the
8 drilling program looked like for '04, the '05 and the '06
9 for the industry.

10 And the red line basically shows the gas
11 pricing and the theory being, whenever the red line is
12 above the yellow wedge or near the yellow wedge, the
13 industry's making a competitive rate of return, it's
14 going to play -- it's going to tend to have an a -- an
15 environment that will tend to be attracting, if you will,
16 to the basin.

17 And indeed, if you followed rig rates and
18 saw what happened in the industry in '06, '05/'06, there
19 was -- there was a boom up here. We were basically
20 starting to approach, well, one (1) might argue, over 100
21 percent utilization of available drilling equipment and,
22 of course, what happens in any market when you start to
23 approach 95 to 100 percent utilization of anything, I
24 don't care if it's widgets, bicycles or drilling rigs,
25 the price of poker goes up. It gets very expensive.

1 MR. ANDRE PLOURDE: So I shouldn't
2 conclude anything from the fact that the red line is for
3 almost all of the year below the sum of overhead royalty
4 operating costs, operating capital --

5 MR. KEVIN MYERS: You're -- you're
6 talking about when you get into the '06, later '06 time
7 frame and that?

8 MR. ANDRE PLOURDE: No, no. It's
9 throughout. If you look at '06, it's within all --

10 MR. KEVIN MYERS: Oh, I see what you're
11 saying. Yeah, I apologize.

12 MR. ANDRE PLOURDE: -- January. The red
13 line is below overhead and royalty opera -- I shouldn't
14 conclude anything from that?

15 MR. KEVIN MYERS: Well, what I would
16 conclude from this is the following, I mean, the industry
17 was showing very, very competitive rates of return in the
18 '05 and this -- this played into the early '06 first
19 quarter or so and so it picked up its activity, it was
20 investing significantly.

21 During '06 gas prices weakened, as you see
22 in the red line, substantially and haven't recovered
23 anywhere near to the levels they were in late -- late
24 '05, early '06. And what the industry did in response
25 is, to the combination of cost and decreased revenues, is

1 it cut back on its investment and the numbers I've seen,
2 like I -- I've said earlier was about \$5 billion
3 reduction in investment in -- in western Canada gas, in
4 particular.

5 MR. ANDRE PLOURDE: But this isn't here,
6 I know and we've had some gas producers tell us, fox
7 example, they've had excellent returns in '06, excellent
8 returns at the beginning of '07. I guess I'm not too
9 sure what to conclude from this.

10 We're probably not going to get there, so
11 that's okay. In terms of you mentioned the cost relat --
12 the cost -- costs are higher in Canada than the US, could
13 you give me some idea how that has evolved over time?
14 You threw out and you told us roughly 40 percent.

15 MR. KEVIN MYERS: About 40 percent.

16 MR. ANDRE PLOURDE: Is this more now than
17 it was five (5) years ago, that kind of thing?

18 MR. KEVIN MYERS: Yeah, if you go back --
19 I can -- I have the numbers --

20 MR. ANDRE PLOURDE: That would be useful.

21 MR. KEVIN MYERS: -- I think they're
22 actually in the report there it's mentioned back to about
23 '02/'03 and at that time it was running about 15 to 20
24 percent, if I recall correctly, were more expensive.

25 I think what's driving to that when you

1 get to the pre-f -- the pre-foreign exchange period,
2 which I think foreign exchange explains the increase from
3 like 15 to 20 percent higher cost in '03ish to 40 percent
4 today.

5 I think it accounts for a big chunk of
6 that, but beyond the foreign exchange impact, I think
7 what you see different between here and the lower 48,
8 when I talk to my -- my counterparts down there is, it's
9 our seasonal drilling, it results in a, boy, I wish I
10 could run a rig all year round.

11 MR. ANDRE PLOURDE: But that's not a new
12 thing?

13 MR. KEVIN MYERS: That's a new thing.

14 MR. ANDRE PLOURDE: And it can't really
15 explain how the pattern of --

16 MR. KEVIN MYERS: Well, it -- it explains
17 why when you go back five (5) or six (6) years, why we
18 are --

19 MR. ANDRE PLOURDE: Sure.

20 MR. KEVIN MYERS: -- more expensive and
21 why it's been -- why it's been exacerbated as our dollar
22 has strengthened.

23 MR. ANDRE PLOURDE: Okay. One (1) thing
24 which I didn't see in your report, and you haven't talked
25 about, is essentially some discussion about comparisons

1 between the situation in Venezuela and in -- in the
2 Canadian oil sands.

3 I mean, ConocoPhillips is in a privileged
4 position to be able to bring to our attention evidence
5 from operating in both areas. I don't want to lead --
6 lead you any more than that. If maybe you can give us
7 some idea of how it compares, what's it -- what's it like
8 operating in Venezuela compared to operating in Alberta.

9 MR. KEVIN MYERS: Well, I would say and,
10 again, it's -- it's always a sensitive subject 'cause I -
11 - I'm sure you're probably aware that we continue to have
12 ongoing negotiations with the government of Venezuela as
13 to how we will be reimbursed for our -- our interest
14 there, but I would say until the most recent political
15 regime, I think we were very happy with our -- our
16 relationship in Venezuela. As a matter of fact,
17 the fiscal regime they had there had some similarities in
18 the sense that it encouraged development. It provided
19 some low -- lower royalty regimes to help substantiate
20 these multibillion dollar investments that were necessary
21 to develop the -- the Orinoco Belt.

22 Unfortunately, with the change in the
23 political regime, our -- our experience has been less
24 than satisfactory. It is interesting whether it occurs
25 through the national guard showing up at midnight or it

1 occurs through fiscal regime, reduction, expropriation,
2 reduction intake, has the same net effect.

3 Clearly, we hope that things will change
4 in Venezuela and some day we would plan on returning if
5 they do, but for now, it's really dampened our enthusiasm
6 and I think as the whole western industry of additional
7 investments in Venezuela.

8 MR. ANDRE PLOURDE: One (1) last thing, I
9 don't think you had to fear the national guard showing up
10 in Fort McMurray.

11 MR. KEVIN MYERS: No, I hope not. I
12 doubt that. As a matter of fact that is one (1) of the
13 things, remember as I mentioned, I meant political risk,
14 that's one (1) of the things that even though we -- at
15 times -- not the oil sands, but the gas targets, the --
16 the targets we go for -- it's amazing.

17 In Russia I was looking for fields that
18 had billions of barrels or multiple TCF. Now, I can tell
19 you right now, put the oil sands aside, in the western
20 Canada, conventional oil or tight gas, we're not looking
21 for billions of barrels or multiple TCF, but the nice
22 thing is, as you said, there's -- there's an undercurrent
23 of stability that offsets this -- this lower -- these
24 smaller targets.

25 MR. ANDRE PLOURDE: And in the oil sands

1 you don't have to look for the billions of barrels, you
2 actually know where they are.

3 MR. KEVIN MYERS: It's a low risk and I
4 made that comment, that's one (1) wonderful thing about
5 Alberta, it is a low geological risk. I just wish that
6 our projects weren't quite as marginal as they are. It
7 seems like everything we deal with whether it be -- it's
8 not Alberta, but it's Canada. Arctic gas, oil sands or -
9 - or the western Canada sedimentary basin, they all have
10 that same theme that we're on the high end of the cost
11 curve.

12 MR. ANDRE PLOURDE: Okay, thank you.

13 THE CHAIRPERSON: In the -- in our
14 analysis of some of the information that's been presented
15 over the various communities that we visited, we had one
16 (1) president of a small to medium energy company make a
17 presentation, not unsimilar to a lot of the other energy
18 companies and he talked about costs and parking rigs and
19 a few other things.

20 And then for some reason I picked up the
21 annual report for that same company and it talked about
22 something totally different. In fact, it talked about
23 making 2008 a banner year for drilling and a whole bunch
24 -- so there -- it was inconsistent with -- with the
25 information.

1 Is this document that you gave us for the
2 submission to the review panel something that you share
3 with your shareholders?

4 MR. KEVIN MYERS: Since it's considered
5 to be a public document, de facto, yes. Now, we've
6 mailed this out to our shareholders, no. But would I say
7 is there anything inconsistent in that with what we tell
8 our shareholders, no.

9 THE CHAIRPERSON: Okay.

10 MR. KEVIN MYERS: You know, we cut back,
11 I mean, we cut back our capital investment in western
12 Canada. We increased our oil sands investment, but we've
13 cut back our -- what -- capital investment in western
14 Canada by 50 percent and we've got -- you know, we --
15 that is something we put in our -- all of our analyst
16 presentations and that.

17 We also say at the same time, we're
18 hoping that the conditions change so that we can ramp
19 back up our investment in -- in western Canada. And one
20 (1) -- one (1) of the things we're looking for is will
21 the cost relief be coming here and, hopefully, no
22 offsetting increases in royalty or greenhouse gases,
23 yada, yada, yada,

24 THE CHAIRPERSON: Thank you, sir.
25 Appreciate your presentation this morning.

1 MR. KEVIN MYERS: Thank you.

2 THE CHAIRPERSON: Ladies and gentlemen,
3 we have one (1) more presenter. It is Mr. Krickhahn, an
4 Alberta citizen. If you are here, sir.

5 MR. UWE KRICKHAHN: Okay.

6 THE CHAIRPERSON: I hope I pronounced
7 your name right. Could you give me the proper
8 pronunciation.

9 MR. UWE KRICKHAHN: It would be
10 Krickhahn.

11 THE CHAIRPERSON: Krickhahn, thank you.
12 Welcome, sir.

13

14 PRESENTATION BY PRIVATE CITIZEN:

15 MR. UWE KRICKHAHN: Ms. Dwarkin,
16 gentlemen. I'm a citizen of Canada now for forty-eight
17 (48) years. We live in Medicine Hat for the better part
18 of some forty (40) years and I'm a shareholder of 3.2
19 million shareholder of our natural resources in Alberta.

20 Listening to the presentation made by the
21 oil patch people, as we refer them to, I have the feeling
22 they're all infected by the Liberal Conier disease with a
23 subsiver -- subvirus of G99 complaining left, right and
24 centre. We're not making any mone -- any money, but the
25 last six (6) quarters we made record profits on one (1)

1 side and on the other side, so I -- I have a rather mixed
2 message, I get from those people.

3 You probably have sorted it out a lot
4 better than I have anyhow. On the spur of the moment, I
5 downloaded some information from the internet in regards
6 to royalties and so on and what's happening to our
7 Heritage Fund and Alaska Permanent Fund and so on and so
8 on.

9 And I have the feeling that we are not
10 getting enough or not getting our fair share of royalties
11 for the taxpayers of Alberta. Our infrastructure is
12 completely deteriorating and I think somewhere along the
13 line the money has to come or we have to refer to having
14 a sales tax in Alberta which probably is not going to go
15 over too well at all.

16 We're talking -- in my thirty-five (35)
17 years -- thirty (30) -- thirty-six (36) years of
18 business, I sold Mercedes and Volkswagens in Medicine
19 Hat. I ran a tight ship and our net profits on turnover
20 was between 1 1/2 and 1.75 percent and that is considered
21 in our industry, even today, as a tight well run company.

22 I have outlived fifty-six (56) dealers in
23 Medicine Hat and part of it had to do, when things got
24 tight then you tighten down, you batten down the hatches
25 and you go through systems and you watch, you switch the

1 lights off, you're the last one to get out of the door
2 and the first one to open the door.

3 And I have the feeling with the rates
4 they're paying and the overhead, the oil -- the oil patch
5 itself, they got themselves into and they've painted
6 themselves into a corner where they hardly can escape.
7 Cost control, I think co -- I -- I have the feeling there
8 is no cost control. Anyhow, back -- to get back to the
9 rate of return, who says and -- and you, Mr. Plourde,
10 really commented on it. You know, where is -- where is
11 the bar where you make more money or less money.

12 This is the average return of like 15
13 percent they're aiming to or aiming at, who tells me that
14 15 percent is a fair return or I tell you that it's way
15 too high. I think you should have a return of 8 percent
16 or maybe it's 7 percent and that's the way -- that's the
17 way it is and you should lower your bar maybe a little
18 bit, not going for the maximum or the maximum return, but
19 going for fair return.

20 You know, if you're running at double
21 inflation rate or triple or quadruple the inflation rate,
22 I personally believe it is excessive. We are -- Premier
23 Stelmach put a little warning shot into the air this
24 morning, I guess today, we're going have some taxes and
25 if I have to pay more taxes than I think everybody else

1 should pay more taxes too.

2 We are affected all by it, but I think the
3 oil company pay the -- should pay the fair share of taxes
4 as well.

5 My recommendation is that we have a flex
6 rate of return or charge royalty charges on a per barrel
7 basis and according to the Oil Weekly, which I downloaded
8 yesterday, Alberta in 2004, Alberta only got \$4.30 a
9 barrel, Alaska should -- got \$11.60 a barrel and Norway
10 charged fifteen (15) or got \$14.10 a barrel.

11 There's some structure -- structural
12 differences between the two (2) -- or between the three
13 (3), between the State of Alaska and the Nation of
14 Norway, I don't understand that, but that is basically
15 for you to sort out.

16 I would recommend a flat percentage
17 charge which then is automatically adjusted or maybe only
18 -- almost daily basis and it can be done very, very
19 easily on fifteen (15) or eighteen (18) or 20 percent of
20 the barrel.

21 Whatever the cost, the world prices a
22 barrel of -- of oil that -- that will be charged against
23 the producer, so he knows exactly before he's going to
24 drill a hole that he knows that my overhead is going to
25 be so high, well, that's my actual cost to retrieve the

1 oil, retrieve the natural gas that's -- that's what I
2 have to pay. I have a fixed cost and it flexes with an
3 amount based on a world -- world price.

4 Another -- I'm a little bit of an
5 environmental freak in a sense, a tree hugger or whatever
6 they call them, the tar ponds, a hundred and sixty-eight
7 (168) acres, \$400 million to clean out.

8 Estimate -- estimate that oil sands by the
9 time they're done, there are going to be seventy-seven
10 thousand (77,000) square kilometres and I don't think we
11 have any money or resources ever to clean that up. And
12 that's what I like, that's my presentation.

13 THE CHAIRPERSON: Thank you, sir. Would
14 you allow us a few questions?

15 MR. UWE KRICKHAHN: Any questions?

16 THE CHAIRPERSON: We do. We do.

17 Andre...?

18

19 QUESTIONS BY THE BOARD:

20 MR. ANDRE PLOURDE: Thanks.

21 You've talked mostly about oil. How do
22 you think of natural gas? Similar type of approach,
23 different kind of approach?

24 MR. UWE KRICKHAHN: I think we could have
25 the flat rate. I don't have an argument with natural gas

1 charged the same way, but it should be -- EnCana
2 apparently is the only one who's doing it. They are
3 paying 12.9 percent right now and I'm not complaining.
4 So can we squeeze them a little bit more for twenty (20)?
5 Maybe we could.

6 MR. ANDRE PLOURDE: Okay. Thank you.

7 THE CHAIRPERSON: Judith...?

8 MS. JUDITH DWARKIN: Thank you. Good
9 morning.

10 You talk about a flat rate but it's a
11 flexible rate at the same time so I'm not quite sure what
12 you're advocating. In fact, in the conventional royalty
13 system now the rate does flex with price -- oil or gas --
14 up to a maximum amount and then it's flat.

15 Are you suggesting something different
16 from that?

17 MR. UWE KRICKHAHN: I'm not aware that we
18 are doing it right now, to be quite honest about it.

19 But let's say for -- just for argument's
20 sake, the oil price goes up to a hundred dollars a barrel
21 which could be quite possible if they ever straighten out
22 the mess in Iran and Iraq, and we have a flat rate of 20
23 percent on a barrel of oil of the world price, we collect
24 twenty dollars (\$20).

25 If the oil price goes down to sixty (60),

1 we collect twenty (20) -- we would collect twelve (12).
2 Sorry. But if the oil price goes down to thirty (30), we
3 still collect six dollars (\$6) and the oil companies have
4 to deal with that particular item.

5 So, it's fluctuating based on the world
6 price; that's what we charge to produce it.

7 You know, we're talking "we"; we are
8 Alberta.

9 MS. JUDITH DWARKIN: Okay. Thank you.

10 THE CHAIRPERSON: Evan...?

11 MR. EVAN CHRAPKO: Something that you
12 mentioned which is not necessarily part of our mandate,
13 but you touched on sales tax in Alberta.

14 Are you suggesting that that would be
15 unacceptable or acceptable in terms of making up a
16 revenue shortfall?

17 MR. UWE KRICKHAHN: If you want to have a
18 complete change of government, you might as well
19 introduce a sales tax. Is it acceptable? No, I don't
20 think it is. I think we have enough natural resources to
21 have no sales tax well for maybe the next fifteen (15) or
22 twenty (20) or thirty (30) years, whatever.

23 We have to extract natural gas. It's
24 going to be harder to find, I realize that. Methane
25 coming out of the coal beds, you know, even not too far

1 away from here. Water is going to be the biggest problem
2 in the production. But if the methods are too expensive
3 at this time, then it is time that they develop methods
4 which are less expensive.

5 Technology, you cannot stand still. And
6 over my years I had to learn so many things, and I'm
7 still learning. And I'm not -- at seventy-two (72) years
8 of age I still continue to learn, it is not that you stop
9 today and say, Hey, this is it.

10 What is the technology? Do we have to
11 look at something entirely different, and that's the way
12 we can do it and that's the way we can make money. It
13 will cost us to develop that, yes, but that's what we
14 have to do.

15 Sales tax, no, it will be not acceptable.
16 We will have -- I think -- even the very mention of a
17 sales tax I think would defeat the government. That's --
18 you never seen anything like it. Maybe there's a change
19 anyway because Albertans have a habit of every thirty
20 (30) years to throw out the government anyway, maybe it's
21 going to come anyway, but we don't know that.

22 MR. EVAN CHRAPKO: So as a taxpayer and
23 owner of the energy resource, what I thought I heard you
24 just say now you'd be okay with funding or in some way
25 putting incentives in place to develop better technology

1 at resource extraction and get at more of this stuff
2 cheaper or faster.

3 MR. UWE KRICKHAHN: No, I don't think we
4 should put incentives in place.

5 MR. EVAN CHRAPKO: No?

6 MR. UWE KRICKHAHN: I don't think that is
7 our mandate as citizens of Alberta to do that.

8 If you want to build something and you
9 want to do something or you want to get a certain --
10 certain natural resources, then it's your responsibility
11 to do it as cheap as possible at your own cost. We are
12 not facilitators to do that. There is some natural gas
13 in the ground and if you'd like to have it then you find
14 the technology to do it.

15 I don't think we should pay --

16 MR. EVAN CHRAPKO: What if --

17 MR. UWE KRICKHAHN: -- any incentives.

18 MR. EVAN CHRAPKO: What if my technology
19 only lets me get at 20 or 30 percent and the rest is
20 stranded and I move on and you, as a taxpayer, sitting on
21 70 percent that can't be accessed, are you still happy
22 with not incenting a technology improvement?

23 MR. UWE KRICKHAHN: Oh yes.

24 MR. EVAN CHRAPKO: As the owner of the
25 resource. You still wouldn't -- you wouldn't see that as

1 your -- something --

2 MR. UWE KRICKHAHN: My --

3 MR. EVAN CHRAPKO: -- a burden you should
4 share?

5 MR. UWE KRICKHAHN: I always had a
6 problem with it because being in -- in an enterprise
7 myself, I really -- the only time I ever accepted money
8 from the government it was in 1981 when the interest
9 rates went right through the roof then, the government
10 had lots of money at that time to enter -- pay some
11 interest on my floor planning for my cars and it was well
12 appreciated, to be quite honest.

13 And it was the first time in I think in
14 twenty (20) -- twenty-two (22) or nin -- eighteen (18),
15 nineteen (19) years we lost money on the -- on a year-to-
16 year basis. If it is not economical to take the natural
17 gas out of the ground today, it probably will be
18 economical to take it out of the ground in ten (10) or
19 fifteen (15) years or twenty (20) years. It is not
20 something which is lost.

21 MR. EVAN CHRAPKO: Thank you.

22 THE CHAIRPERSON: Ken...?

23 MR. KEN MCKENZIE: You just addressed the
24 questions I was going to ask you and -- and you gave very
25 -- very clear and eloquent answers, so thank you very

1 much for that.

2 MR. UWE KRICKHAHN: Thank you.

3 MR. KEN MCKENZIE: Thank you.

4 THE CHAIRPERSON: Sam...?

5 MR. SAM SPANGLET: Thanks for the
6 presentation.

7 MR. UWE KRICKHAHN: Thank you.

8 MR. SAM SPANGLET: Environment, you
9 touched on a very sensitive point and I agree with you
10 that the tailing ponds from the tar sands, you call them
11 the tar ponds. This could become a major environmental
12 issue down the road, it already is really.

13 MR. UWE KRICKHAHN: Mm-hm.

14 MR. SAM SPANGLET: Unless -- unless
15 something change in the last year and a half which I've
16 not been part of the business anymore, I think the permit
17 requires companies to reclaim those ponds every ten (10)
18 years.

19 Do you know about any just -- unless you
20 know something that I don't -- I'm not aware in the last
21 year and a half, is that -- is that changed?

22 MR. UWE KRICKHAHN: As you well know,
23 reclaiming -- you know, reclaiming contaminated soil is -
24 - it's extremely expensive and I'm familiar with some of
25 the cases, you know, where people had gas tanks in the

1 ground and they had to --

2 MR. SAM SPANGLET: Right.

3 MR. UWE KRICKHAHN: -- buy property --
4 had to buy the property back because they're -- the --
5 the sale of the co -- of the property was far higher than
6 -- than cleaning up the property.

7 MR. SAM SPANGLET: Yeah.

8 MR. UWE KRICKHAHN: They -- they bought
9 the property back and -- and, you know, it's inactive now
10 sitting there. We don't have a reserve fund in Alberta,
11 not -- not to my knowledge that the Alberta Government
12 has set billions and billions of dollars aside and say,
13 well, all right this is what the kind of money we need to
14 clean up.

15 You know, if -- if the oil company -- if
16 Husky Oil today is owned by a Chinese investor, I
17 believe, and if he decides to move out after all the oil
18 sands are gone and he declares Husky in bankrupt because
19 the cleanup bill is, let's say for argument sake, \$10
20 billion and his total assets in Canada are only two (2)
21 then we, as a taxpayer, of this province are holding the
22 bag.

23 MR. SAM SPANGLET: Thank you.

24 THE CHAIRPERSON: Thank you very much for
25 your presentation and --

1 MR. UWE KRICKHAHN: Thank you.

2 THE CHAIRPERSON: -- I applaud you coming
3 forward on behalf of yourself and Albertans. Appreciate
4 that. Ladies and gentlemen --

5 MR. UWE KRICKHAHN: Have a good lunch.

6 THE CHAIRPERSON: Yes. Have a great day.

7 Ladies and gentlemen, that concludes this
8 morning's presentations. We will be coming back this
9 afternoon at two o'clock to hear from ARC Resources and
10 Penn West Energy Trust. Thank you very much.

11

12 --- Upon recessing at 12:15 p.m.

13 --- Upon resuming at 1:55 p.m.

14

15 THE CHAIRPERSON: Good afternoon, Ladies
16 and Gentlemen. Welcome everyone. And on behalf of the
17 Royalty Review Panel thank you for your interest in
18 Alberta's royalty and tax regimes.

19 Your input is a very important part of our
20 work and we appreciate your time and your effort.

21 I'd like to introduce the Panel to you
22 before we start. On my far right here is Ken McKenzie;
23 followed by Sam Spanglet. I'm Bill Hunter; Andre
24 Plourde; Judith Dwarkin; and Evan Chrapko.

25 On our far right is a capable young man

1 who is responsible for time management. He has some
2 placards to help you with your time management.

3 Each individual presenter will have five
4 minutes followed by an opportunity for the panel to ask
5 questions. Each organization will have ten (10) minutes
6 and, again, the Panel would like to have the opportunity
7 to ask questions.

8 If you have a submission -- a written
9 submission with you today and you don't want to present
10 but submit it, we have various secretariat people and our
11 reception desk where you can hand that in.

12 If you haven't and you're thinking about
13 it, our public submissions are closing on June 22nd.

14 From a safety perspective, if you'll
15 notice there's an exit door at the rear of the room and
16 one to the immediate right of the Panel. Should there be
17 any emergencies, please familiarize yourself with the
18 closest exit.

19 If you would, please shut off your cell
20 phones and your Blackberries, we don't want any
21 interruptions during the presentations.

22 These proceedings are being transcribed;
23 that allows two opportunities: One is for us to share
24 with all Albertans via our Website albertaroyalreview.ca
25 the transactions that happened today, as well as

1 capturing adequately the exchange during the question
2 period.

3 If there's any media here today, I'd be
4 glad to speak to them at the next break. I ask that you
5 please respect the space of the Panel and the presenters
6 during the proceedings.

7 And again, on behalf of the Panel and
8 Albertans, thank you very much for your time and your
9 interest.

10 The Panel has the opportunity to hear this
11 afternoon from Mr. Tange from Penn West Energy Trust.

12 Welcome, sir.

13 MR. KRISTIAN TANGE: Thank you.

14

15 (BRIEF PAUSE)

16

17 PRESENTATION BY PENN WEST ENERGY TRUST:

18 MR. KRISTIAN TANGE: Hello, my name is
19 Kristian Tange and I'm Vice-President of Business
20 Development at Penn West Energy Trust. Thank you for
21 giving us the opportunity to present here today in
22 Medicine Hat.

23 The first slide -- or sorry, the second
24 slide here is the corporate profile for Penn West.

25 Since 1995, which is when I joined Penn

1 West, Penn West was producing about 15,000 to 20,000
2 barrels of oil a day; had an enterprise value of 250 to
3 \$300 million. Today, Penn West is the largest energy
4 trust in North America, producing approximately 130,000
5 barrels of oil equivalent per day with an enterprise
6 value in excess of about \$10 million.

7 Penn West's main ingredient to success has
8 been its ability to grind and create value out of the
9 conventional oil reserves -- oil pools in the Western
10 Canadian basin, and our core focus has been mainly
11 Alberta.

12 On slide number 3, it highlights the core
13 areas that Penn West operates in. It also highlights the
14 projects, the CO2 projects that Penn West has a working
15 interest in, and I'll start with the CO2 projects going
16 from southeast to northwest.

17 Midale. Penn West has a 9 percent working
18 interest in there. And there was a CO2 flood that was
19 initiated in late 2005 and we expect that's going to
20 extend the life of that pool by an additional twenty-five
21 (25) years.

22 If you go west to Weyburn, Penn West has a
23 21 percent working interest in that pool, and a CO2 flood
24 was initiated a few years back. Prior to that CO2 flood,
25 that pool was producing approximately five (5,000) to six

1 thousand (6,000) barrels of oil per day. Today, it's
2 producing in excess of 30,000 barrels of oil per day.
3 Another example of C02 flooding extending the life of
4 these large conventional oilfields.

5 If you go further west to Joffre, Penn
6 West is the main working interest owner and operator of
7 that pool. This was a pool that was abandoned by the
8 early 1980s. Mid-'80s a C02 flood had -- was initiated
9 and that flood has been going on for more than twenty
10 (20) years and will for some time into the future.

11 Again, another example of C02 flooding
12 extending the life of these conventional oil pools.

13 Penn West also has an interest in South
14 Swan Hills. Ninety (90) percent, we're operator there.
15 We're solvent miscible flooding that pool as well, that's
16 ongoing. We have an interest in the Devon C02 pilot in
17 Swan Hills and we also have the Pembina pilot which is
18 currently in progress.

19 My fourth slide, I really want to just
20 quickly review the status of C02 flooding in North
21 America.

22 The United States is by far the leader in
23 C02 flooding with seventy-four (74) projects, active
24 projects, producing approximately 237,000 barrels of oil
25 per day.

1 Saskatchewan, we just talked about but
2 there's more projects in Saskatchewan under review
3 because they have the infrastructure in place via Midale
4 -- via Weyburn and Midale.

5 Alberta, in contrast, is still at square
6 one, it's still very much in its infancy, and this
7 provides a tremendous opportunity for Alberta to become a
8 C02 flood player.

9 Currently, there's a flood at Glencoe,
10 Joffre, and I think there's also one at Enchant, which I
11 didn't get on the slide here. The key point here is its
12 order of magnitude difference compared to other
13 jurisdictions.

14 At the bottom of the table there you can
15 see Penn West C02 pilots, we have the Pembina/Alee's
16 (phonetic) pilot which is on stream, we have two (2) more
17 planned for the end of the year. The key point I want to
18 make here is Penn West is spending significant capital
19 trying to push C02 flooding on a larger commercial scale
20 here in Alberta. And it's good to see there's other
21 operators who are starting to get in to that mode of
22 thinking; that's encouraging.

23 The next slide on page 5 is a table of the
24 top fifteen (15) light medium oil pools in Alberta. The
25 yellow highlights are pools where Penn West has a

1 significant working interest. What I really want to
2 focus on are two (2) points.

3 At the bottom of the table there you can
4 see the original oil in place of about 50 billion barrels
5 of oil. Thirty-one (31) percent has been produced to
6 date; that means 70 percent of the oil is still in the
7 ground.

8 With CO2 UR you can get an incremental 10
9 to 20 percent of the oil out, typically; that translates
10 into about five (5) to ten (10) billion barrels of
11 incremental oil on a simplistic basis. If you high grade
12 the pools to the more amenable reservoirs, you still have
13 a very large number. That's point number 1.

14 Point number 2 is these light medium oil
15 pools are a high value, low greenhouse gas intensity
16 resource. In an era where greenhouse gas emissions are
17 becoming a bigger and bigger issue and we have the
18 opportunity to sequester CO2 while extracting more of
19 that oil that's still in the ground, that's a win-win for
20 Alberta and -- and other stakeholders as well.

21 Going on to slide 6. I list some of the
22 other benefits here to Alberta. Obviously, with CO2
23 flooding there is -- there is incremental revenue stream
24 here that you would not otherwise realize. You get
25 increase in -- with CO2 flooding, there's a lot of

1 capital that's required; that's increased investment;
2 that's increased economic activity in rural Alberta;
3 increased employment in -- not just one local area of
4 Alberta but throughout Alberta because these pools are
5 dispersed throughout Alberta.

6 You get increased taxes at all levels of
7 government.

8 You get better utilization of existing
9 infrastructure, again throughout Alberta not just in one
10 localized area.

11 And I've already touched on the greenhouse
12 gas emissions in my previous points.

13 Over time, fresh water consumption would
14 decrease as CO2 displaces water.

15 And the last point, it's really just a
16 reiteration of another point that I made before and that
17 is we have 70 percent of the oil, it's still in the
18 ground. It seems to make a lot of sense to take a waste
19 product and try and extract more of that high value
20 resource out.

21 Next slide is -- really answers the
22 question: Why hasn't CO2 flooding taken on in a large
23 sense here in Alberta? And there's some realities with
24 CO2 flooding here in Alberta.

25 The first point is really a -- from a CO2

1 flood proponent perspective. As a C02 flood operator,
2 there's very significant capital outlays that are
3 required upfront for infill drilling, for infield
4 facility development, pipeline development, recycling,
5 that kind of stuff. One commercial phase in Pembina or
6 Swan Hills could easily cost 200 to \$300 million. That's
7 upfront, that's before any C02 gets injected.

8 Then you also have the C02 injecting
9 costs; that can range from 50 to \$100 million, depending
10 on the project size. So you have this large upfront
11 capital cost.

12 Then you have also with that, once you
13 inject C02, it takes time for that reservoir to respond
14 to the C02 injection before you actually get an
15 incremental barrel out.

16 As a -- you know, that translates into
17 long payout economics. And as I highlight in red there,
18 a C02 operator needs a robust price, a supportive royalty
19 regime to help make C02 flooding competitive with
20 alternative investments.

21 And the other two points I list on the
22 slide there are really bigger, wider industry-related
23 issues that are being worked on to resolve over time, and
24 that's lack of reliable low cost C02. And obviously you
25 need successful C02 pilots that are repeatable on a

1 larger -- on a large commercial scale.

2 So, really, in summary here, UR royalty
3 program, we think it's a critical component -- not the
4 only component but a critical component to encouraging
5 C02 flooding on a commercial scale.

6 Our opinion is that the current royalty
7 regime needs to go beyond the status quo in terms of
8 encouraging C02 flooding in Alberta.

9 The second point there is -- is list one
10 option that can help balance out that front-end
11 loadedness that the C02 operators have. And we're
12 suggesting an upfront corporate royalty relief on UR
13 capital spent, reduced UR royalty before payout, and a
14 higher UR royalty after payout.

15 And one point I really want to emphasize
16 here is with that type of concept, there's a potential
17 for win-win with both industry and Alberta. Both parties
18 -- both parties can -- both parties can end up with
19 incremental revenue streams they would not otherwise
20 have. Both parties can end up with incremental rate of
21 return that they would not otherwise have without C02
22 flooding.

23 And my wrap-up point here, really, is
24 there's an opportunity here to set the stage to extend
25 the conventional oil reserves here in Alberta. One

1 critical component is a royalty program that recognizes
2 and deals -- helps deal with some of the challenges of
3 C02 flooding.

4 Thank you for your time and consideration.

5 THE CHAIRPERSON: Thank you, sir. If you
6 will allow us a few questions.

7 MR. KRISTIAN TANGE: Absolutely.

8

9 QUESTIONS BY THE BOARD:

10 THE CHAIRPERSON: Judith...?

11 MS. JUDITH DWARKIN: Thank you. Good
12 afternoon. Thanks for your presentation.

13 A couple of questions. You note on your
14 slide 7 that the commercial scale C02 flooding has two
15 (2) essential requirements: One is, the robust commodity
16 prices and the second is, supportive royalty regime.

17 How are you defining "robust commodity
18 price" considering where expectations for average future
19 prices have shifted in the last few years?

20 MR. KRISTIAN TANGE: I say "robust", I'm
21 talking probably a price in excess of fifty dollars
22 (\$50), just given the higher capital costs that we're
23 seeing. I mean, if capital costs start coming down then
24 -- then that commodity price can probably come down as
25 well, so.

1 MS. JUDITH DWARKIN: Okay. And can you
2 tell us about any -- are there incentives in the US
3 fuelling the UR C02 floods there?

4 MR. KRISTIAN TANGE: I can't speak to the
5 US particularly; I could speak to Saskatchewan a little
6 bit. I know Weyburn there was -- there were some
7 incentives provided for the Weyburn to kick off but --
8 but the US, I'm not -- I think they have a different cost
9 structure than we do, and it varies from state to state
10 but it's tough for me to
11 comment --

12 MS. JUDITH DWARKIN: Okay.

13 MR. KRISTIAN TANGE: -- much further than
14 that.

15 MS. JUDITH DWARKIN: And lastly, your
16 point about

17 "the producer needs a sufficiently
18 competitive rate of return relative to
19 alternative investments to be inspired
20 to undertake a C02 flood."

21 What is that competitive rate of return
22 that you have in mind?

23 MR. KRISTIAN TANGE: Well, it's going to
24 depend from company to company. I think -- you know, I
25 think you need a -- a rate of return probably greater

1 are produced today in Alberta using the flooding? You
2 guys -- the total, if you have an idea.

3 MR. KRISTIAN TANGE: Yeah, I can certainly
4 speak to Joffre. Glencoe is a private company so I'm not
5 up to speed on how much they produce. But we're
6 producing about six (6), seven hundred (700) barrels a
7 day from Joffre.

8 MR. SAM SPANGLET: Okay.

9 MR. KRISTIAN TANGE: And that was an
10 abandoned field, literally.

11 MR. SAM SPANGLET: Yeah.

12 MR. KRISTIAN TANGE: Yeah.

13 MR. SAM SPANGLET: But totally? You
14 know --

15 MR. KRISTIAN TANGE: It's -- I'm going to
16 guess it's probably a thousand (1,000) to two thousand
17 (2,000) --

18 MR. SAM SPANGLET: Thousand.

19 MR. KRISTIAN TANGE: -- barrels a day,
20 Sam.

21 MR. SAM SPANGLET: Okay.

22 MR. KRISTIAN TANGE: That's a guess.

23 MR. SAM SPANGLET: Thank you.

24 Now the other question is: Where do you
25 get the CO2 from? In Joffre I guess you get it from

1 Nova, is --

2 MR. KRISTIAN TANGE: We get --

3 MR. SAM SPANGLET: -- is that right?

4 MR. KRISTIAN TANGE: -- it from Nova.

5 Yeah, it's two (2) miles a way. I mean, there's a very
6 natural fit there. We're two (2) miles away. They were
7 stripping out CO2 from one of their streams, it was very
8 pure. You hook up a compressor and two (2) miles of
9 pipeline and away you go.

10 MR. SAM SPANGLET: When do you --

11 MR. KRISTIAN TANGE: Very opportunistic.

12 MR. SAM SPANGLET: When do you get

13 Scotford going? You guys --

14 MR. KRISTIAN TANGE: What's that?

15 MR. SAM SPANGLET: You've done a deal
16 with Scotford, with Shell, is that --

17 MR. KRISTIAN TANGE: We were working on a
18 letter of intent with them but that's been slow.

19 MR. SAM SPANGLET: Okay.

20 MR. KRISTIAN TANGE: Yeah.

21 MR. SAM SPANGLET: You think there is
22 enough CO2 that can be captured -- no, the investment --
23 just backtracking here a little bit --

24 MR. KRISTIAN TANGE: Sure.

25 MR. SAM SPANGLET: -- because I meant to

1 ask and it is so environmentally friendly that I'm
2 interested in it. Do you know how much CO2 is in the
3 area that can be used? Not in quantities, but is there
4 enough CO2 to be captured to be used to -- there is?

5 MR. KRISTIAN TANGE: We've been looking
6 at CO2 capture supply from different sources for quite
7 some time. And you have the refiners. There's coal,
8 which is very expensive --

9 MR. SAM SPANGLET: Yeah.

10 MR. KRISTIAN TANGE: -- to capture and
11 then you have refiners. Again, that's quite expensive to
12 capture. Some of the upgraders, it's fairly expensive to
13 capture. Really the gas supplying -- the gasification
14 options seem to provide the lowest cost CO2 and that's
15 really what I think a UR proponent would look at.

16 MR. SAM SPANGLET: So from the refinery
17 standpoint, it's going to be important to develop
18 technology I guess to --

19 MR. KRISTIAN TANGE: Absolutely.

20 MR. SAM SPANGLET: -- to be able to
21 capture and provide it -- provide to people like yourself
22 that CO2?

23 MR. KRISTIAN TANGE: Yes.

24 MR. SAM SPANGLET: Well, thanks very
25 much.

1 MR. KRISTIAN TANGE: Yeah, you bet.

2 THE CHAIRPERSON: Evan...?

3 MR. EVAN CHRAPKO: Do you consider this
4 an infant technology or it's good enough to pour hundreds
5 of millions of dollars into?

6 MR. KRISTIAN TANGE: The CO2 flooding is
7 not an infant technology in itself, the capture side of
8 it is something that has -- the cost of CO2 has to come
9 down because the UR just can't carry the cost of the CO2
10 capture and the transportation costs. So, I would say
11 the capture side is probably fairly new technology.

12 The UR itself, it's been going on for
13 longer than I've been alive.

14 MR. EVAN CHRAPKO: And what would you --
15 what are you asking us for, specifically, in terms of a
16 royalty and corporate income tax review?

17 MR. KRISTIAN TANGE: I guess one idea I'm
18 throwing out here is, you know, there is a UR royalty
19 relief right now for tertiary recovery and that's worked
20 for hydrocarbon in the past, but -- and it's ring fenced
21 around the scheme. And what I'm suggesting in here, and
22 it's just one suggestion it's not the only one, but make
23 that ring fence a little wider so that the payout -- the
24 up-front capital costs aren't all loaded up on the UR
25 operator.

1 MR. EVAN CHRAPKO: And just for CO2, not
2 all technologies?

3 MR. KRISTIAN TANGE: I'm speaking on
4 behalf of CO2 but it could -- it could certainly apply to
5 other technologies as well. We just see an tremendous
6 opportunity with the conventional oil pools; that's where
7 you -- the CO2 UR -- the CO2 flooding works very well.

8 MR. EVAN CHRAPKO: How would you define
9 it or how would you help us think about this if you, as
10 you likely will, inevitably move on to other technologies
11 in years to come? Is it specifically a CO2 ingredient as
12 the touchstone or is it flooding as the concept, or
13 what's --

14 MR. KRISTIAN TANGE: Well, CO2 is a good
15 miscible agent for flooding and since there's so much of
16 it around, that seems to be a logical choice. And it's
17 been going on in Weyburn and we do have a lot in the
18 Edmonton area, we have a lot in the Fort McMurray area,
19 so.

20 You know, in the past it's been the
21 hydrocarbons, it's been solvents, it's been the C3-C4s.
22 But, again, those are very expensive to -- to utilize.
23 We're using one. We have one such project up in Swan
24 Hills but it makes a lot more sense to use CO2, from our
25 perspective. There are certainly challenges, no doubt.

1 MR. EVAN CHRAPKO: So you'll likely be on
2 CO2 all else being equal for the next hundred years?

3 MR. KRISTIAN TANGE: These are long-term
4 projects that we have -- you know, Pembina and Swan
5 Hills, they can take a lot of CO2. And when you start a
6 flood, it lasts for a generation or more, so.

7 MR. EVAN CHRAPKO: Thank you.

8 THE CHAIRPERSON: Ken...?

9 MR. KEN MCKENZIE: Yeah, thanks.

10 Aside from the proximity to a CO2 source,
11 what makes a pool amenable to CO2 flooding? I mean, my
12 understanding is that it's not something that's --- that
13 can be universally applied, some pools it just doesn't
14 work for.

15 MR. KRISTIAN TANGE: You need a fairly
16 homogeneous pool, homogeneous rock, you need good
17 pressure high --- you need minimum stability pressure.
18 Usually if it's been a good water flood candidate that's
19 a --- that's usually a good sign that it's a good
20 candidate for CO2 flood.

21 Good well density helps because you have
22 to infill drill to sweep more of the rocks so. Good
23 depth, good gravity oil, good homogeneous rock. Those
24 are the ---

25 MR. KEN MCKENZIE: The same sorts of

1 things you'd be looking at with a water flood as you say.
2 You're just looking at a different agent.

3 MR. KRISTIAN TANGE: Absolutely right.

4 MR. KEN MCKENZIE: Great. Just another
5 question here just for clarification. At one point on
6 one of your slides, you indicated that there is potential
7 to permanently sequester 400 million tons ---

8 MR. KRISTIAN TANGE: Yes.

9 MR. KEN MCKENZIE: Of CO2 by EOR, where's
10 that number come from?

11 MR. KRISTIAN TANGE: That was from a ---
12 I don't have it right here in front of me but Stephan
13 Batchu (phonetic) and Jerry Shaw publication. There's
14 lots of publications out there but they did a fairly
15 detailed study and they did a high grade on that number.
16 There's some bigger numbers and there's some smaller
17 numbers, and their number looked fairly reasonable ---

18 MR. KEN MCKENZIE: Okay.

19 MR. KRISTIAN TANGE: -- because they did
20 a fair bit of detail in their study.

21 MR. KEN MCKENZIE: Okay. So this is --
22 I'm assuming -- this is based upon assumptions about how
23 easy it is to capture -- I mean, this is sort of pretty
24 optimistic I would think.

25 I mean, we're not there right now ---

1 MR. KRISTIAN TANGE: That number's
2 probably middle of the road.

3 MR. KEN MCKENZIE: Okay.

4 MR. KRISTIAN TANGE: Relative to what
5 I've read. I've seen a thousand, two thousand --

6 MR. KEN MCKENZIE: Okay.

7 MR. KRISTIAN TANGE: -- like, that's
8 probably a little too high --

9 MR. KEN MCKENZIE: Okay.

10 MR. KRISTIAN TANGE: You know, just
11 looking at it.

12 MR. KEN MCKENZIE: So this is relatively
13 conservative. You know ---

14 MR. KRISTIAN TANGE: It's middle of the
15 road.

16 MR. KEN MCKENZIE: Middle of the road.

17 MR. KRISTIAN TANGE: Yep.

18 MR. KEN MCKENZIE: Great. Good, thanks a
19 lot.

20 MR. KRISTIAN TANGE: You're welcome.

21 THE CHAIRPERSON: Andre...?

22 MR. ANDRE PLOURDE: Thanks for your
23 presentation. I got your material just a little while
24 ago so I've looked through it and I'll go through it
25 again and I'm sorry if I haven't --- don't do it justice

1 right now.

2 MR. KRISTIAN TANGE: Okay.

3 MR. ANDRE PLOURDE: On slide 5 you talk
4 about recovery rates and on --- earlier you --- just on
5 slide 6 you talk about 400 million tons of CO2
6 sequestered.

7 Can you kind of make the link between the
8 two (2) tables and tell me, roughly, if you sequester 400
9 million tons, how many more barrels of oil are we going
10 to be producing?

11 MR. KRISTIAN TANGE: If you --- rule of
12 thumb that you can use and it's just a rule of thumb, it
13 usually takes five (5) to --- on a good flood it'll take
14 five (5) to ten (10) MCF of CO2 to produce one (1) barrel
15 of oil.

16 So you can work it backwards if you have a
17 calculator and I don't have one on me. But, --

18 MR. ANDRE PLOURDE: I don't have one here
19 but I --

20 MR. KRISTIAN TANGE: -- that's a good rule
21 of thumb and that can give you an idea.

22 MR. ANDRE PLOURDE: Ok, thanks. That's
23 useful. You talk about this at some point in time about
24 CO2 purchase costs which is on your slide number 7.

25 MR. KRISTIAN TANGE: Yep.

1 MR. ANDRE PLOURDE: Now, if we're in a
2 world where there's greenhouse gas emissions type of
3 project where the price of CO2 -- CO2 itself has a price.

4 How does that effect the economics of
5 flooding?

6 MR. KRISTIAN TANGE: So this is a
7 perspective from the CO2 flood operator.

8 MR. ANDRE PLOURDE: Right.

9 MR. KRISTIAN TANGE: And from our
10 perspective we, obviously, want to pay as little price as
11 possible because we have to inject a lot of CO2 to get
12 our oil out.

13 MR. ANDRE PLOURDE: But if companies now
14 -- if a firm producing CO2 now gets a -- there's a cost
15 to putting CO2 --

16 MR. KRISTIAN TANGE: Yep.

17 MR. ANDRE PLOURDE: -- somewhere other
18 than in the ground. How does that affect the economics
19 of flooding?

20 MR. KRISTIAN TANGE: It -- how -- I'd say
21 indirectly. If you're a CO2 emitter you're going to look
22 at the cost, the penalty cost, that you have to pay to
23 emit CO2 versus --

24 MR. ANDRE PLOURDE: Right.

25 MR. KRISTIAN TANGE: -- what it's going

1 to cost to capture. And UR, it can bear some of that
2 capture cost, not all of the capture cost, depending on
3 the process that you're dealing with. So, it depends
4 what the penalty is or what the cost.

5 MR. ANDRE PLOURDE: So what's the
6 standard capture cost in a standard? Pick something
7 that's okay.

8 MR. KRISTIAN TANGE: Well for coal ---

9 MR. ANDRE PLOURDE: That's high.

10 MR. KRISTIAN TANGE: That's going to be
11 very high. If you ---

12 MR. ANDRE PLOURDE: Yeah.

13 MR. KRISTIAN TANGE: -- look at the
14 refiners, they're probably -- this is a range \$50 to \$80
15 a ton. And then if you're looking at gasification, it's
16 less than \$40 to \$30 dollars, it depends.

17 MR. ANDRE PLOURDE: Great. One last
18 thing. As you know was --- and you mentioned here the
19 Alberta government, but also the federal government, have
20 been running some incentive programs, right, to support
21 CO₂, the kinds of operations that you have now.

22 What have we learned as a result of these
23 incentive programs?

24 MR. ANDRE PLOURDE: I think you're
25 referring to the energy --- Innovation Energy Technology

1 Program and I think that's been an excellent program
2 that's been put forth by the Alberta government.

3 It's not just CO2 UR, it's technology in
4 general. And it's to help industry spend a little bit of
5 money learning the technologies, understanding the
6 technologies, getting over the technical and the economic
7 hurdles and challenges. And they participated in the
8 Pembina/Alee's (phonetic) pilot and that's still ongoing.
9 It's pretty early to draw any definitive conclusions but
10 we're certainly learning some things from that.

11 We are doing that Pembina horizontal pilot
12 to learn more about spacing and well configuration.
13 We've learned that, you know, on our pilot that there's
14 very good injectivity, very good CO2 containment, very
15 good sweep efficiency which are all very encouraging to
16 us. But it's --- we're two (2) years in and you're
17 talking about a reservoir where it's taken seventeen (17)
18 --- fifty-three (53) years to produce 17 percent of the
19 oil out.

20 It's very tight. It takes time to learn
21 this stuff. A lot of people aren't patient enough to --
22 they always ask when when when, but it just takes time
23 and ---

24 MR. ANDRE PLOURDE: So it's a bit early
25 to kind of ---

1 MR. KRISTIAN TANGE: It's a little bit
2 early.

3 MR. ANDRE PLOURDE: -- and major
4 learning --

5 MR. KRISTIAN TANGE: And we share those
6 learnings with the -- one of the committee's with the
7 government on that.

8 MR. ANDRE PLOURDE: Okay.

9 MR. KRISTIAN TANGE: And it gets
10 disbursed over time as well, that information. That's
11 the whole idea.

12 MR. ANDRE PLOURDE: Okay. Great. Thank
13 you.

14 MR. KRISTIAN TANGE: You're welcome.

15 THE CHAIRPERSON: On the same point, I
16 think it was in the last two (2) to three (3) years that
17 the people of Alberta supported your industry with \$200
18 million through that fund.

19 MR. KRISTIAN TANGE: Right.

20 THE CHAIRPERSON: Through that minister.
21 And now you're asking for a royalty -- EOR royalty
22 program on top of that. Sort of like having your cake
23 and eating it too, but those are my words.

24 Is that actually what you want, or would
25 you prefer that the people of Alberta continue to invest

1 money in the technology? Or would you like the royalty
2 relief?

3 MR. KRISTIAN TANGE: I think the ITP's
4 been a great program to help industry learn about CO2 UR
5 technology. What I'm suggesting here today is that we
6 take it up a notch and try and go for a large commercial
7 scale CO2 flood to kick-start it like they did in
8 Weyburn.

9 And I guess what I'm saying here, is if
10 the royalty regime doesn't change, what could happen is
11 you have potential projects that could --- that may not
12 materialize that should materialize because it's
13 incrementally beneficial to both Alberta and industry
14 because we're chasing the tougher barrel now. The easy
15 barrels have been produced and now we're chasing the -- I
16 call it the EOR barrels, the enhanced oil recovery
17 barrels. And then there's more costs -- as I say,
18 there's more upfront cost and more risk with that.

19 We're saying that instead of loading all
20 the costs and the risks on one (1) stakeholder, can we
21 somehow work with the royalty program so that everybody
22 benefits.

23 THE CHAIRPERSON: Thank you very much for
24 your presentation this afternoon. We appreciate that.

25 MR. KRISTIAN TANGE: You're welcome.

1 Thank you.

2 THE CHAIRPERSON: Have a great day.

3 MR. KRISTIAN TANGE: Thanks.

4

5 (BRIEF PAUSE)

6

7 THE CHAIRPERSON: Next the panel has an

8 opportunity to hear from Mr. Stadnyk ARC Resources.

9 Welcome, sir.

10

11 PRESENTATION BY ARC RESOURCES:

12 MR. MYRON STADNYK: Yeah, thank you. So
13 I'll -- thank you for the opportunity to present. And
14 what I'd like to speak about is the mature assets. I
15 know there's been a lot of talk on the oil sands and, you
16 know, where the industry's going. I have a little bit of
17 that on CO2 but I'd like to spend one (1) moment on the
18 mature assets that still are important in Alberta's
19 industry so.

20 The --- I guess you could look at us as a
21 voice for the conventional assets for this specific
22 presentation.

23 To just give a quick overview on page 3.
24 Similar to Penn West, we started in the mid '90's and
25 we've grown our company from \$200 million initial value

1 to over \$5 billion, and we currently employ four hundred
2 fifty (450) people and about five hundred (500)
3 contractors.

4 We've repatriated about \$2 billion of
5 assets to Canada, to Calgary head office that were
6 previously owned by multi-national companies, in essence.
7 So that's been our mantra, our focus has been on
8 conventional oil and gas assets.

9 Of these \$2.6 billion of assets that we've
10 acquired, we've reinvested \$1.3 billion in developing
11 them. And we've spent a billion dollars operating those
12 assets over that time period.

13 During that time we've paid \$1.2 billion
14 of royalties, about \$800 million of that to Alberta. So
15 on the next page -- I guess I should flick this along
16 here. I just have a quick slide to context ARC in the
17 industry, so, this is the companies that are listed on
18 the TSX. We are number 14 on there and we produce about
19 64 thousand BOE per day.

20 You can see, clearly, the trend that the
21 industry has undergone the last ten (10) years. You see
22 the integrateds, the mega companies with the refining oil
23 sands large production bases. Kind of a smaller E&P
24 group, the green bars now that are true sort of A&P's but
25 you see as they look for growth they're going overseas.

1 Then kind of the trust business that's
2 really producing the historical or legacy assets of
3 conventional production.

4 Now, you know, there's this -- I think one
5 important number just yesterday in the Daily Oil Bulletin
6 it talked about Penn West and ourselves, Penn West having
7 the largest conventional light oil, light and medium oil
8 reserves and us being the second largest.

9 So I just thought it was interesting to
10 put it into perspective for you. Ours are one hundred
11 and one (101) million barrels of light and medium crude.
12 If you look at that on a world scale, the world will
13 consume that much in about twenty-eight (28) hours. And
14 we'll work about twenty-five (25) years with a thousand
15 (1,000) people to produce it.

16 So, it really gives you a context of what
17 these -- the remaining light oil and medium reserves are
18 left in our Province. The world's now consuming about
19 eighty-five (85) million barrels a day of oil.

20 So on page 5, I think this just gives you
21 a sense of the type of portfolios that companies are
22 operating that have mature assets. So, in our case, we
23 have the Pembina discovery well. Fifty (50) years old
24 well, we smashed the bottle of non-alcoholic champagne in
25 the new oil patch on it a couple of years ago. And the

1 Redwater field we had since the late '40s. We operate in
2 Swan Hills. We also have, in this area, lots of wells,
3 some of them being -- some -- a couple in Brooks are
4 getting to be eighty (80) years old so -- but I call
5 them legacy assets.

6 So, to have our production of sixty-four
7 (64) thousand barrels a day, we own a small ownership in
8 some wells and a hundred (100) percent in other, but a
9 total of seventeen thousand (17,000) wells. So, that
10 gives you the complexity of the business operating mature
11 assets.

12 So my key point that I'd like to drive
13 home in this presentation is that it's really important
14 to us as a conventional producer with a lot of these old
15 assets to establish a solid base that we have predictable
16 royalty rates and that the royalty rates acknowledge that
17 the cost of operating these old wells is expensive.

18 And that we maximize the long-term
19 recovery of this resource for our shareholders and for
20 the people of our Province. So it'd like to just run
21 through a couple examples to make those points. But
22 before I'll -- I do that I've tried to condense the CAPP
23 summary into two (2) pages, which is not easy, but here I
24 go.

25 So, what -- what I wanted to show is with

1 the graph on page 8. The key points of the royalty
2 system currently in Alberta. Now, this -- this
3 summarizes a lot of complex calculations of how royalties
4 are done, but the key points are that royalty rates
5 automatically adjust for price, they automatically adjust
6 for the productivity. But they do -- they don't consider
7 the increasing costs of our basin.

8 As you can see in our mature fields, those
9 royalty rates -- I've looked at a whole bunch of them and
10 they're about between 5 and 10 percent. And that's the
11 kind of numbers that are rolling out for these mature
12 assets. So just to give you the context.

13 Now, what I'd like to show is a ten-year
14 history. So I've been at ARC since the start and this is
15 what I've seen since we have grown this company. This is
16 shown graphically on this page, but our operating costs
17 started at around four dollars (\$4), they're about nine
18 dollars (\$9) a barrel.

19 The royalties started in a similar range,
20 and they're up to about ten dollars (\$10) a barrel. So
21 if you take that concept of the price increasing, you can
22 see on wells that actually have declined in production
23 over a ten (10) year period, that the royalty payment has
24 gone up 230 percent per well, which is figured in because
25 the price has increased.

1 So the actual cost of adding new reserves
2 to replace what we've produced has been the most dramatic
3 increase, and I've shown that on the dark brown part of
4 that graph. So in our case, where we started reserves,
5 you could buy for five (5) to six (6) dollars a barrel.
6 With the cost increases, with the pressure on the
7 acquisition market, that industry average has climbed
8 near twenty (20) dollars a barrel.

9 So on page 10 on the returns, you can see
10 the actual -- what's left over per BOE hasn't changed a
11 whole bunch. So there's a -- it's very interesting to
12 look at the actual history of one company that's been in
13 conventional production for -- for eleven (11) years.

14 So just to reiterate the key point, the
15 royalties have, in a way, looked after themselves because
16 those royalty curves have been very well thought out.

17 The key points then on page 11, I think
18 everyone's acknowledged the cost of our industry has gone
19 up dramatically. I think, you know, in the CAPP
20 presentation you've seen the size of the oil and gas
21 discoveries that are being made. It is getting tougher
22 to find -- to find discoveries to sustain the companies
23 and it's very challenging in western Canada.

24 And that's evidenced by seeing our
25 intergradeds going overseas and the movement to the oil

1 sands.

2 Now, I'll just repeat the point that there
3 is this economic reality of our basin and a fair sharing
4 of royalties and profits is essential for us to fully
5 mature these assets.

6 Now, I wanted to just give a couple
7 property specific examples. I think on page 13 and 14
8 what you can see there is that in 2006 Alberta drilled
9 3,000 oil wells and just about 13,000 gas wells. The --
10 that's, you know, 15-16,000 wells and you can see the
11 average production per rate -- per well.

12 I think you've seen that in the CAPP
13 presentation. At a macro level, the oil production on
14 conventional is declining despite that drilling of all
15 those wells. The macro level of gas, the gas is staying
16 about flat with all the drilling of the wells. So, that
17 gives you a macro level of the conventional basins.

18 So people are using their cash flow from
19 conventional assets to look for new developments. Now,
20 you might ask why are the costs going up so dramatically
21 on fields? Well, here's an example of Redwater.

22 We acquired this asset from Imperial Oil.
23 You can see during the peak of this it was producing
24 150,000 barrels a day with very little water in the early
25 '70's.

1 This property actually went up to about a
2 million barrels a day of water that's produced in
3 conjunction with the oil. Now, the oil --- the little
4 orange part at the end is the oil that we are producing.
5 It's about 4,000 barrels a day. It's tough to see and we
6 produce about 600,000 barrels of water with that. So, to
7 reinject water in these aging oil fields, in this
8 example, it's \$12 a barrel just to put the water back in
9 the ground.

10 So, the costs of these types of older
11 fields are very common to be over \$20 a barrel. So the
12 net back, in order to have a return, the royalties in
13 this particular field are about 7 percent; that's what's
14 allowing us to break even and to continue running this
15 asset.

16 And on this particular asset - I'll get to
17 it later - that's building a foundation for us to
18 potentially CO2 flood this asset so that's the daisy
19 chain of development there.

20 Similarly on the next page, on page 16, on
21 the Pembina property, I didn't put the water in on this
22 one but it's actually over 100,000 barrels a day of water
23 being reinjected to produce about 5,000 barrels of oil.

24 So again, Pembina in general is about \$20
25 a barrel to operate the production.

1 Pembina, the costs are over \$20 but there's still 60
2 percent of the oil left. That Redwater example, there's
3 still 40 percent of the oil left.

4 So the lower royalty rates for the older
5 low rate wells are important to sustain the production.
6 And I -- the concept of the sliding scale of the
7 production and the price I personally feel is well
8 thought out.

9 So that does the mature asset part. Bill,
10 do you want me to --

11 THE CHAIRPERSON: Actually --

12 MR. MYRON STADNYK: -- wait for questions
13 or do a couple pages ---

14 THE CHAIRPERSON: Did you want to do 21?

15 MR. MYRON STADNYK: Sure.

16 THE CHAIRPERSON: And then we're -- and
17 then we're going to have to go to questions I'm afraid.

18 MR. MYRON STADNYK: Sounds good. So for
19 CO2 what I've done is I've spoke to Kristian a couple
20 days to -- a couple days ago to the concepts on CO2. And
21 the upfront corporate royalty relief, the way I would
22 paraphrase that, if you look at Redwater specifically,
23 that pool would -- would pay \$5 or \$6 million royalties.

24 If you look at the investment required to
25 CO2 flood that, that's going to be half a billion dollar

1 plus factoring in the cost of CO2. So what that point
2 means is that it's going to be important to have fair
3 risk sharing to get these projects off the ground.
4 That's -- that's what -- to paraphrase that.

5 So I -- I agree with -- with that
6 statement. And the concept of reverting to higher
7 percentages, sharing in the risk and then gleaning the
8 take after, I agree with that as well, so.

9 THE CHAIRPERSON: Okay, if you'd allow us
10 some questions?

11 MR. MYRON STADNYK: Sure, yeah.

12

13 QUESTIONS BY THE BOARD:

14 THE CHAIRPERSON: Andre...?

15 MR. ANDRE PLOURDE: Thank you. Thank's
16 for your presentation.

17 MR. MYRON STADNYK: Oh, you're welcome.

18 MR. ANDRE PLOURDE: And thanks for the
19 material that you circulated ahead of time.

20 If I can take you to one of your slides
21 and that is, I think it's 10, when you talk about a ten
22 (10) year increase in terms of returns, finding and
23 development costs, is that an average increase or are you
24 comparing 2006 to -- to 1996, so it should --

25 MR. MYRON STADNYK: Yeah, I just did the

1 one year to the other year.

2 MR. ANDRE PLOURDE: Okay.

3 MR. MYRON STADNYK: I think an easier
4 way, the last three (3) year average is about sixteen
5 dollars (\$16).

6 MR. ANDRE PLOURDE: Right.

7 MR. MYRON STADNYK: So that would still
8 be at double if you average those three (3) years.

9 MR. ANDRE PLOURDE: Yeah. No, I'm just
10 trying to -- the rate of return is kind of quite low in
11 the last year.

12 MR. MYRON STADNYK: Yeah. Yeah.

13 MR. ANDRE PLOURDE: That's all I was --
14 couldn't quite understand.

15 MR. MYRON STADNYK: This is why all the
16 budgets are being cut back on drilling, everybody.

17 MR. ANDRE PLOURDE: Okay. You also talk
18 a bit about natural gas well productivity having
19 declined.

20 MR. MYRON STADNYK: Mm-hm.

21 MR. ANDRE PLOURDE: However, we also know
22 -- I think a lot of people have been telling us about how
23 coal bed methane has grown dramatically --

24 MR. MYRON STADNYK: Yeah. Yeah.

25 MR. ANDRE PLOURDE: -- in the last five

1 (5) years. How much of the decline that we've observed
2 of the 9.2 percent that you -- that you have shown is
3 really linked to this change in the structure of -- of
4 the play itself.

5 MR. MYRON STADNYK: Mm-hm. Yeah.

6 MR. ANDRE PLOURDE: That essentially if
7 we -- do you know if you were just to take out all of the
8 CBM wells and focus on the -- the -- the normal,
9 conventional gas wells --

10 MR. MYRON STADNYK: Yeah.

11 MR. ANDRE PLOURDE: -- what that number
12 would look like.

13 MR. MYRON STADNYK: I think it would be
14 higher. In my experience, our CBM wells come on and they
15 stay flat longer. So, if I were to take my CBM wells out
16 of this graph, the decline would be higher.

17 And I think you see that. I know Apache
18 and EnCana, when they put their wells on, the wells start
19 off at a rate and they actually incline for a while as
20 the coal is produced so.

21 MR. ANDRE PLOURDE: Yeah. We've been
22 getting --

23 MR. MYRON STADNYK: So I --

24 MR. ANDRE PLOURDE: -- lots of different
25 kind of things on this, so it's confusing --

1 MR. MYRON STADNYK: Yeah. My wells are
2 flat.

3 MR. ANDRE PLOURDE: -- that kind of
4 stuff.

5 MR. MYRON STADNYK: Yeah.

6 MR. ANDRE PLOURDE: One last thing, in
7 the terms of the cost issue, you mentioned that the
8 Alberta royalty system kind of adjusted for prices,
9 productivity, also vintage, right, when the oil was
10 found; right?

11 MR. MYRON STADNYK: Yeah, and that --

12 MR. ANDRE PLOURDE: Okay.

13 MR. MYRON STADNYK: Yes.

14 MR. ANDRE PLOURDE: The other thing is,
15 implicitly, there's kind of a link between cost and
16 productivity. Do you think it's sufficient?

17 MR. MYRON STADNYK: So the first part is
18 interesting because on a Redwater and a Pembina field,
19 we're actually paying the old royalty, the highest one.

20 MR. ANDRE PLOURDE: Right.

21 MR. MYRON STADNYK: Even though we're
22 doing the development --

23 MR. ANDRE PLOURDE: Yeah.

24 MR. MYRON STADNYK: -- so, just to be
25 clear on that.

1 MR. ANDRE PLOURDE: Yeah. Yeah.

2 MR. MYRON STADNYK: Then the second one
3 the -- is there sufficient returns on the -- on the new -
4 - just to clarify, do you mean on the new royalty or --

5 MR. ANDRE PLOURDE: Whatever you want.

6 MR. MYRON STADNYK: Whatever you want.
7 Well, the -- the royalties have been in place so long
8 that they're in our economic runs to calculate the
9 return, so each well would be unique.

10 MR. ANDRE PLOURDE: Okay.

11 MR. MYRON STADNYK: You know, they all
12 have different crown, freehold, split, you know, I --

13 MR. ANDRE PLOURDE: Okay, so maybe let me
14 ask the question a bit differently.

15 MR. MYRON STADNYK: Yeah. Yeah. Yeah.

16 MR. ANDRE PLOURDE: I mean, with all this
17 flexibility, in your -- pick a -- you've got gas
18 properties as well as oil properties.

19 MR. MYRON STADNYK: Yeah.

20 MR. ANDRE PLOURDE: When was the last
21 time that your royalty rates on a gas property changed
22 because of a price induced -- because of changes in
23 prices?

24 MR. MYRON STADNYK: The last time the
25 royalty -- the royalty -- the curve is similar --

1 MR. ANDRE PLOURDE: Yeah, yeah. Right.

2 MR. MYRON STADNYK: -- to this one; 20,
3 25 percent, so the royalties have been -- gas royalties
4 are a lot more complicated. They're moving around
5 monthly and then on an annual basis, because you have to
6 credit back for processing and --

7 MR. ANDRE PLOURDE: Right.

8 MR. MYRON STADNYK: -- all that stuff,
9 so, to answer your question, they change all the time.

10 MR. ANDRE PLOURDE: No, but the maximum
11 rate, right, is hit at something like three dollars (\$3)
12 an MCF or give or take --

13 MR. MYRON STADNYK: Yeah.

14 MR. ANDRE PLOURDE: -- somewhere between
15 three (3) and four dollars (\$4) an MCF. I guess my point
16 it's been a long time, I think, since we've been below
17 three (3) or four dollars (\$4) an MCF for natural gas.

18 MR. MYRON STADNYK: Yeah, that -- that
19 would be three (3) or four (4) years.

20 MR. ANDRE PLOURDE: So that, essentially,
21 all the upside -- would that be a fair characterization
22 of -- of your operations? That you've essentially been
23 at the maximum royalty rate for quite some time now?

24 MR. MYRON STADNYK: Yeah, and our gas
25 royalties are very significant.

1 MR. ANDRE PLOURDE: Okay. Great. Thank
2 you.

3 MR. MYRON STADNYK: Yeah.

4 THE CHAIRPERSON: Ken...?

5 MR. KEN MCKENZIE: Yeah, thanks. I'm a
6 little bit -- I just want to help you -- maybe you can
7 help me clarify some of this stuff. As you've just
8 discussed with Andre, we have price sensitivity, we have
9 production sensitivity or productivity sensitivity and
10 the vintage thing. But not cost-sensitive, explicitly.

11 So, are you basically happy with the
12 regime as is or are you advocating for a more cost-
13 sensitive regime, in a sense? You talked about water
14 handling, et cetera. You know, right now we don't
15 account for any of that, you just bear that cost; it's an
16 operating cost. It's not a deduction from royalties, you
17 know, so I'm sure -- not quite clear where -- where your
18 feet are on this issue.

19 MR. MYRON STADNYK: Yeah, my feet are
20 planted that I feel it's well thought out.

21 MR. KEN MCKENZIE: The way it is right
22 now?

23 MR. MYRON STADNYK: Yeah, it -- it -- in
24 my experience, of, you know, a wide variety of fields and
25 well-bores, factoring the productivity and the price

1 increases has been a fair -- been fair.

2 MR. KEN MCKENZIE: All right, with the --
3 with the exception of some of the EOR stuff --

4 MR. MYRON STADNYK: Yeah, exactly.
5 There's always niches that need a little bit of different
6 look at but yeah.

7 MR. KEN MCKENZIE: Okay, so could we just
8 talk a little bit about those -- the sorts of things you
9 have in mind on the EOR stuff. The idea was for
10 corporate tax relief, corporate income tax relief on EOR
11 capital.

12 So is it -- again, there's lots of ways
13 that this can be done. Are there sorts of things that
14 you have in mind things like investment tax credits, fast
15 write-off rates, maybe an ACCA for EOR capital, I mean,
16 what sort of things are you thinking about here?

17 MR. MYRON STADNYK: You know, I came here
18 more to present a concept.

19 MR. KEN MCKENZIE: Okay.

20 MR. MYRON STADNYK: I -- I would say that
21 we're a couple years behind Penn West on specific
22 projects, economics.

23 MR. KEN MCKENZIE: Okay, okay.

24 MR. MYRON STADNYK: But we've done enough
25 economics that we know that the cost of CO2 is going to

1 be very important, whether these get off the ground, and
2 whether there's some kind of sharing in that. And the
3 capital costs -- the payouts are going to be very long
4 because the CO2 is injected; it takes years for
5 potentially to -- to get your response.

6 MR. KEN MCKENZIE: To build the pressure
7 up.

8 MR. MYRON STADNYK: So what I'm looking --
9 my point is a shared risk up front, so that everyone can
10 benefit later.

11 MR. KEN MCKENZIE: Yeah, in some -- in
12 some way without -- because it's more of a conceptual
13 framework right now. Okay, that's great, thank you.

14 MR. MYRON STADNYK: You know, and to maybe
15 the work we've done to answer your last question of CO2,
16 we have a ton of CO2 going in our calculations so you get
17 two to three barrels come out. So if you have to pay a
18 hundred dollars (\$100) for that going in, and you're only
19 getting two barrels out, your F&D costs are fifty dollars
20 (\$50). It's not going to work.

21 MR. KEN MCKENZIE: Doesn't add up for me.

22 MR. MYRON STADNYK: Doesn't add up. And
23 then add your capital and all that, so that -- maybe
24 those numbers help you understand my answer better.

25 MR. KEN MCKENZIE: Yeah -- yeah, they do

1 indeed. Thank you.

2 THE CHAIRPERSON: Judith...?

3 MS. JUDITH DWORKIN: Good afternoon. I
4 want to follow up on a question that Andre was pursuing
5 with you and it's with respect to your observation or
6 your comment that the sliding scale -- conventional
7 royalty, it slides with price and productivity is well
8 thought out and works well. It does slide on price to a
9 point, as Andre was sort of pursuing with you in that.
10 The marginal rate maxes out at about three dollars fifty
11 cents (\$3.50) per MCF and around fifty dollars (\$50) for
12 oil.

13 So in principle, do you think being it's
14 completely well thought out considering where price
15 expectations currently are for the foreseeable future?
16 As in principle.

17 MR. MYRON STADNYK: Yeah, you see, I've
18 been -- in preparation for this I've been studying the
19 other end of the spectrum, the low productivity and the -
20 - I've been studying the, you know, low productivity gas
21 wells and the low productivity recoveries, and those are
22 how those fields are staying economic.

23 So, I feel like I haven't studied enough
24 to answer a seventy dollar (\$70) price environment. You
25 know, I know the future curve's now seventy-two (72),

1 seventy-three (73) dollars.

2 MS. JUDITH DWORKIN: Well, let's even, you
3 know, say it's not even going to be that exuberant, but
4 certainly -- especially more so in the case of natural
5 gas even than crude oil. It would be fair to say that
6 expectations for average prices have definitely shifted
7 upwards over the long -- for the long-term?

8 MR. MYRON STADNYK: Of course, of course.
9 And that was our strategy to buy all these things, right,
10 so.

MS. JUDITH DWARKIN: Okay, thanks.

11 THE CHAIRPERSON: Sam...?

12 MR. SAM SPANGLET: Well, I understand
13 your position, thanks, I don't have any questions.

14 MR. MYRON STADNYK: Oh, you're welcome.

15 MR. SAM SPANGLET: Evan...?

16 MR. EVAN CHRAPKO: Just a little
17 clarification for me on the cost.

18 It looked like the Redwater versus Pembina
19 had ten (10) times more water with one than the other.
20 But you still said it was twenty dollars (\$20) to put it
21 back in for each -- why -- what's going in -- are there
22 no economies of scale to putting back in more?

23 MR. MYRON STADNYK: Yeah, what the
24 interesting difference there is that the Redwater
25 reservoir is actually a very high permeability reservoir.

1 And the water basically falls in the hole. You don't
2 need a whole bunch of pumps. Where at Pembina, you have
3 to pump it up to two thousand pounds (2,000) pressure,
4 which is very expensive on electricity.

5 So, even though there's ten (10) times
6 more water, more by fluke than anything else, they come
7 out to the same operating costs.

8 MR. EVAN CHRAPKO: Okay. I was wondering
9 if that was --

10 MR. MYRON STADNYK: Yeah. Yeah.

11 MR. EVAN CHRAPKO: Yeah, you're welcome.

12 THE CHAIRPERSON: Page 8. I'm a retired
13 logger. I like simplistic things. And in our industry
14 we had -- in the lumber industry, specifically, we have
15 Spruce, we have Pine and we have Fir. And they all have
16 different characteristics and it costs more to harvest
17 one over the other.

18 But at the end of the day, to simplify it,
19 we created an SPF stumpage rate; Spruce, Pine, Fir,
20 rather than have these three (3) separated because they
21 were so close in proximity.

22 Does it make any sense to simplify this?
23 It's quite old, as I understand it, the history of this
24 rate and these numbers. Does it make any sense to make
25 this more simplified? Like why -- why wouldn't it all be

1 35 percent?

2 MR. MYRON STADNYK: Well, you'd be a hero
3 if you could do that. But, yes, you know, the -- one of
4 these is pre-'74, one of these is 1992, I think; the
5 third tier. So there's a combination of history.

6 And why I would agree with what you're
7 saying is I think if you looked five (5) or six (6) years
8 ago, you could say we're producing -- I think if you
9 study the States, everyone says these old field are
10 supporting the industry.

11 Well, that's not true anymore. Only 40
12 percent of the production in the States is coming from
13 what you'd call old field or these, what we call old
14 here. I don't -- I haven't studied the Alberta numbers,
15 but I know it's less and less every year coming from old.

16 And we're replacing it with -- with third
17 tier, so, a simplification of the royalty system, I --
18 when I was preparing for this, my accountants were asking
19 me to make that comment for this and for gas. 'Cause the
20 gas -- the submissions that go back and forth on unit of
21 production credits, low prod, it's just a lot of paper
22 and a lot of time turned.

23 So, I would agree with that.

24 THE CHAIRPERSON: Thank you very much for
25 your contribution today. We really appreciate it.

1 MR. MYRON STADNYK: Yeah, you're welcome.

2 THE CHAIRPERSON: Have a great day.

3 MR. MYRON STADNYK: Yeah, I will.

4 THE CHAIRPERSON: In sunny Medicine Hat.

5 MR. MYRON STADNYK: It's nice here.

6 THE CHAIRPERSON: Ladies and gentlemen,
7 that concludes our registered presenters for this
8 afternoon. We do have a evening session slated for 7:30
9 but, at present, there are no registered presentations.
10 So the panel will make itself available in case we have
11 other Albertans who want to sign up and share their
12 contribution with us.

13 So, thank you very much and please be
14 safe.

15

16 --- Upon recessing at 2:48 p.m.

17 (NO EVENING PRESENTATIONS)

18 --- Upon adjourning at 7:40 p.m.

19

20 Certified Correct,

21

22

23

24 _____
Wendy Warnock, Ms.

25